

# **PROGRAMAS DE ADQUISICION EN LABVIEW**

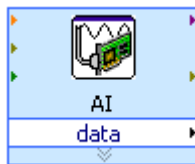
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<b>1.</b>	<b>ENTRADAS ANALOGICAS .....</b>	<b>- 1 -</b>
<b>2.</b>	<b>SALIDAS ANALOGICAS.....</b>	<b>- 4 -</b>
<b>3.</b>	<b>ENTRADAS DIGITALES .....</b>	<b>- 7 -</b>
<b>4.</b>	<b>SALIDAS DIGITALES.....</b>	<b>- 10 -</b>

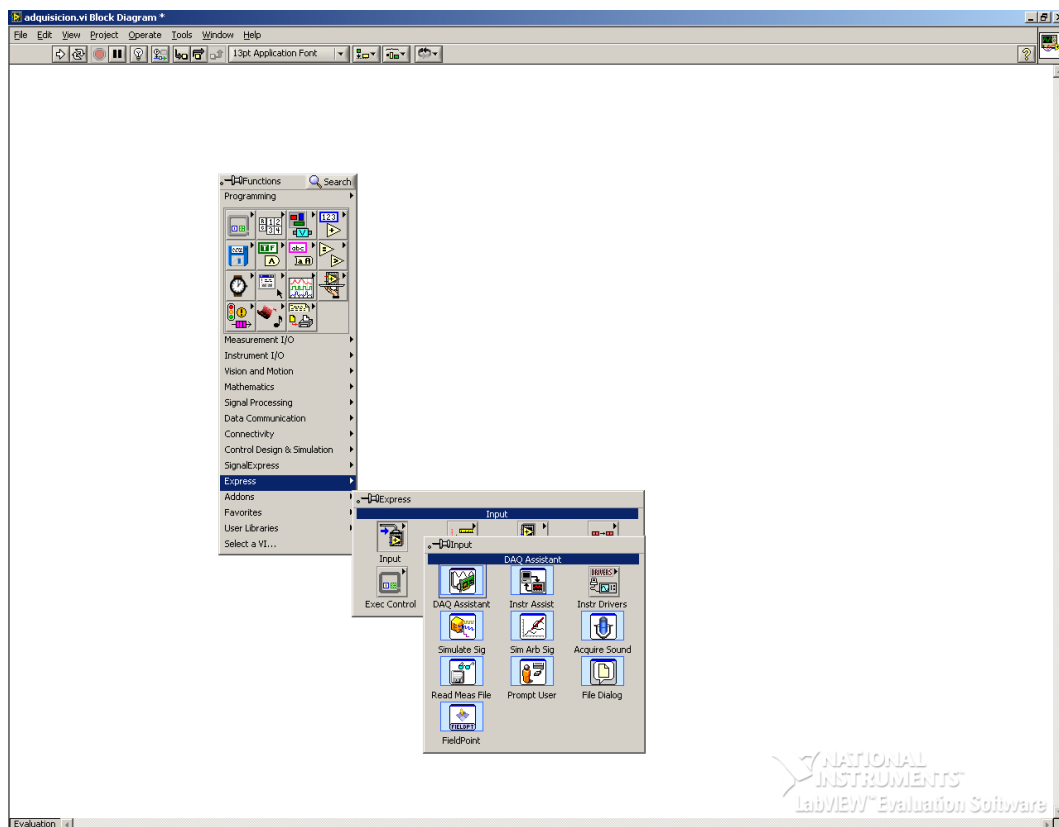


## 1. ENTRADAS ANALOGICAS

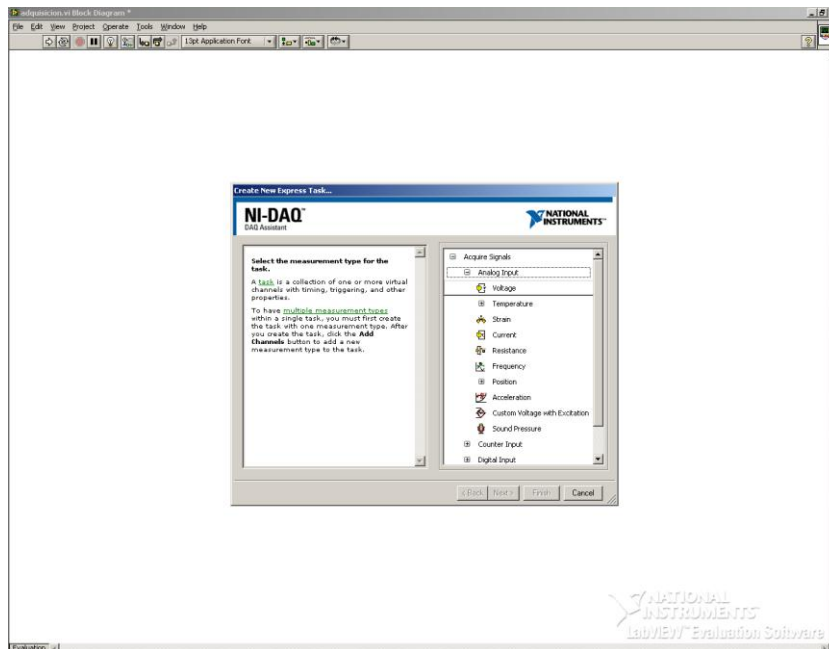
Creación del bloque AI:



1. Buscar la función *DAQ Assistant* dentro de la categoría *Express -> Input*.



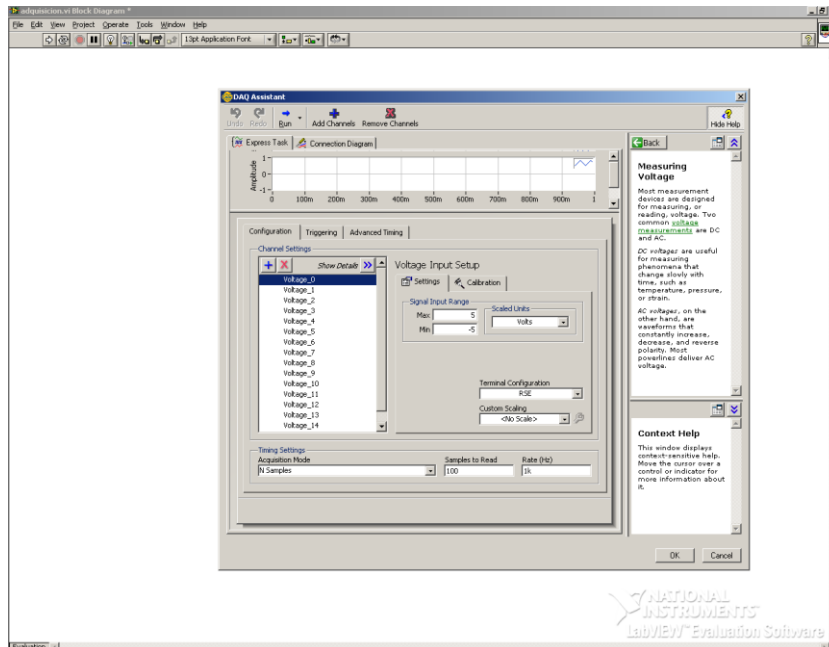
2. Seleccionar *Acquire Signal -> Analog Input -> Voltage* en la nueva ventana emergente.



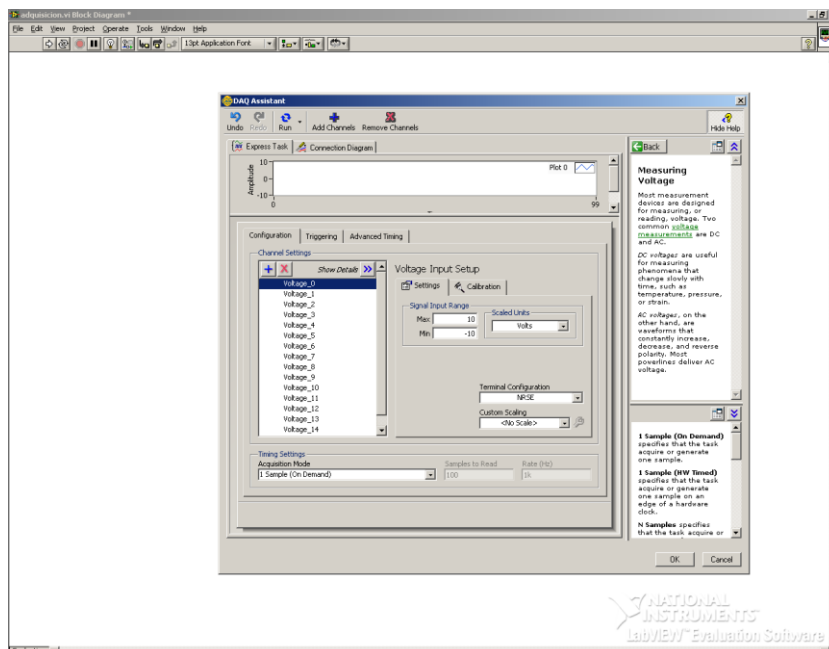
3. Elegir los 16 canales de la tarjeta PCI-MIO-16E-4.



4. Aparece la siguiente configuración por defecto.

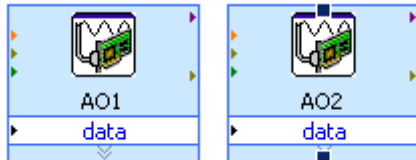


5. Cambiar el rango a  $\pm 10V$ , configuración de terminales a NRSE y el modo de adquisición a una muestra por demanda.

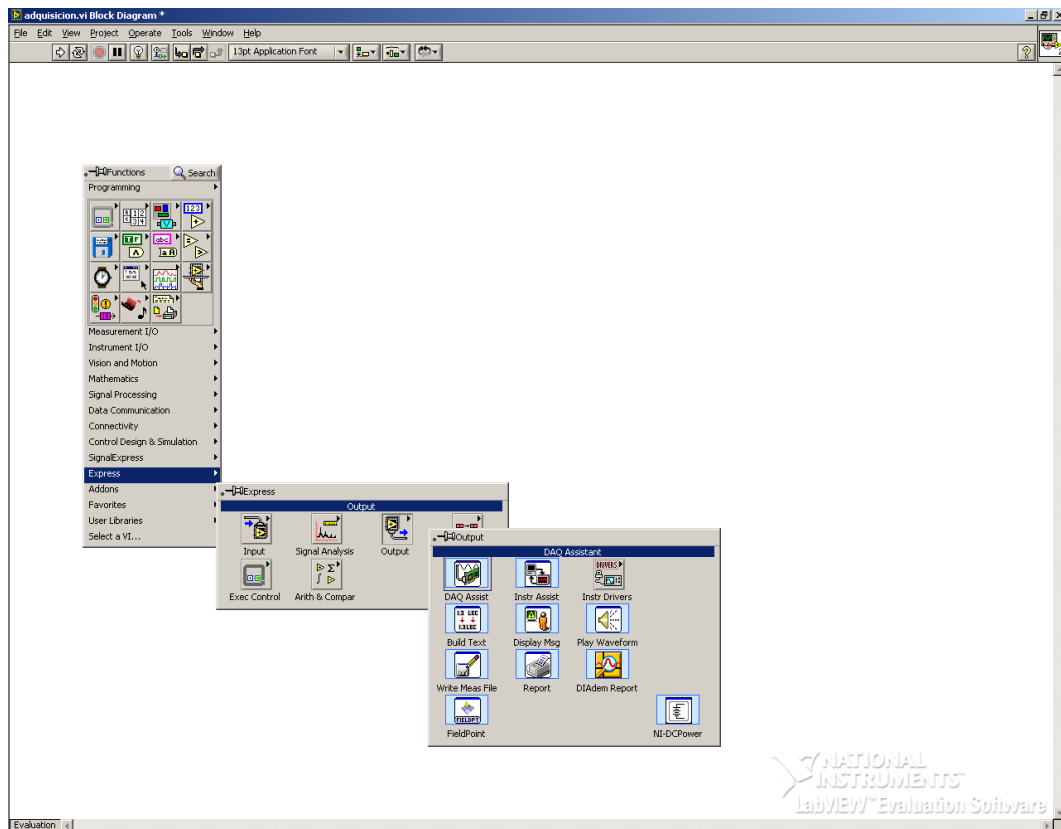


## 2. SALIDAS ANALOGICAS

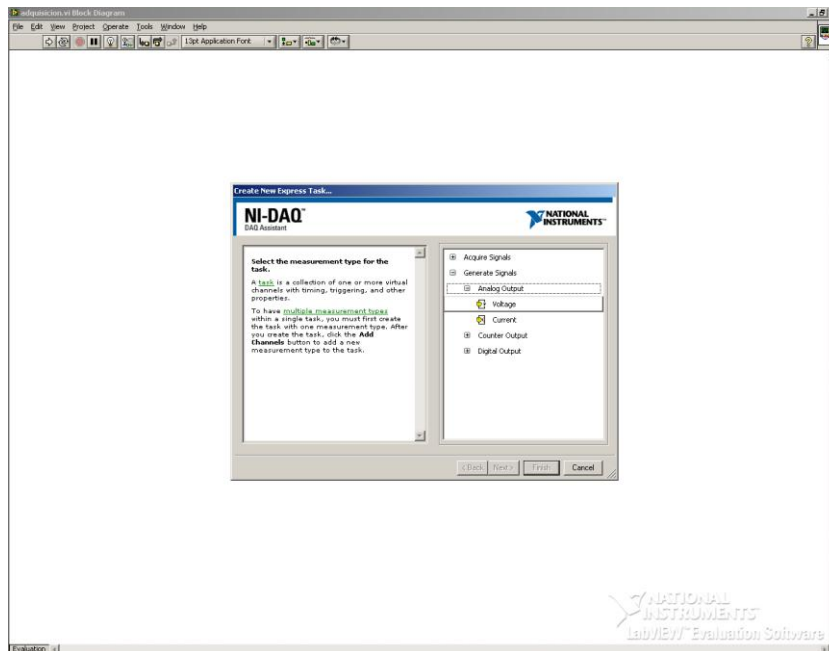
Creación del bloque AO1 y AO2:



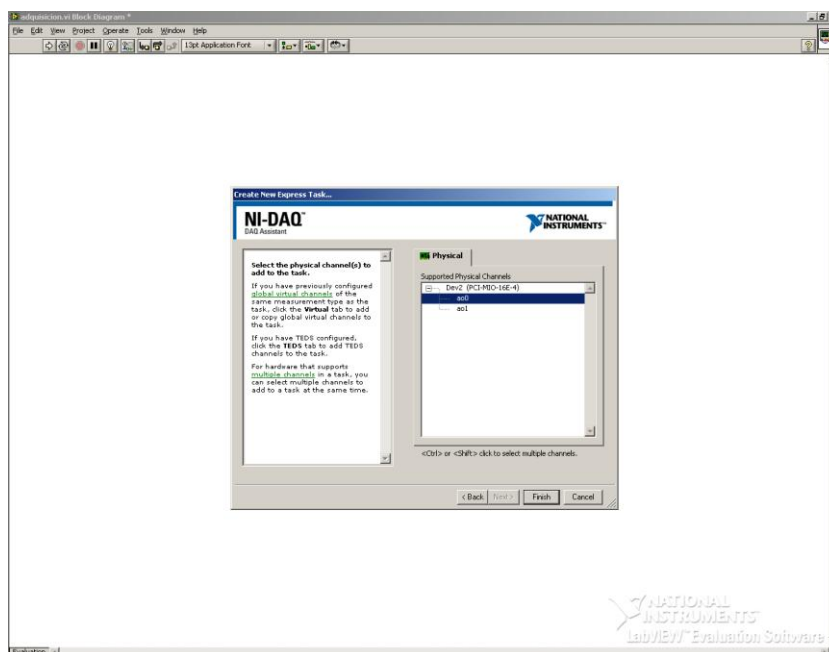
1. Buscar la función *DAQ Assistant* dentro de la categoría *Express -> Output*.



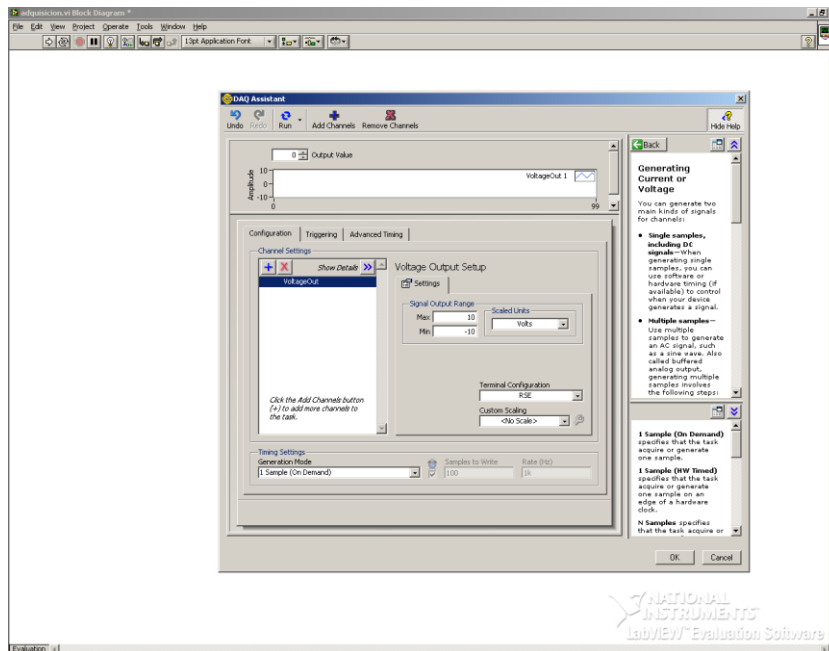
2. Seleccionar *Generate Signal -> Analog Output -> Voltage* en la nueva ventana emergente.



3. Elegir el primer canal de la tarjeta PCI-MIO-16E-4.



4. Cambiar el rango a  $\pm 10V$ , configuración de terminales a RSE y el modo de adquisición a una muestra por demanda.



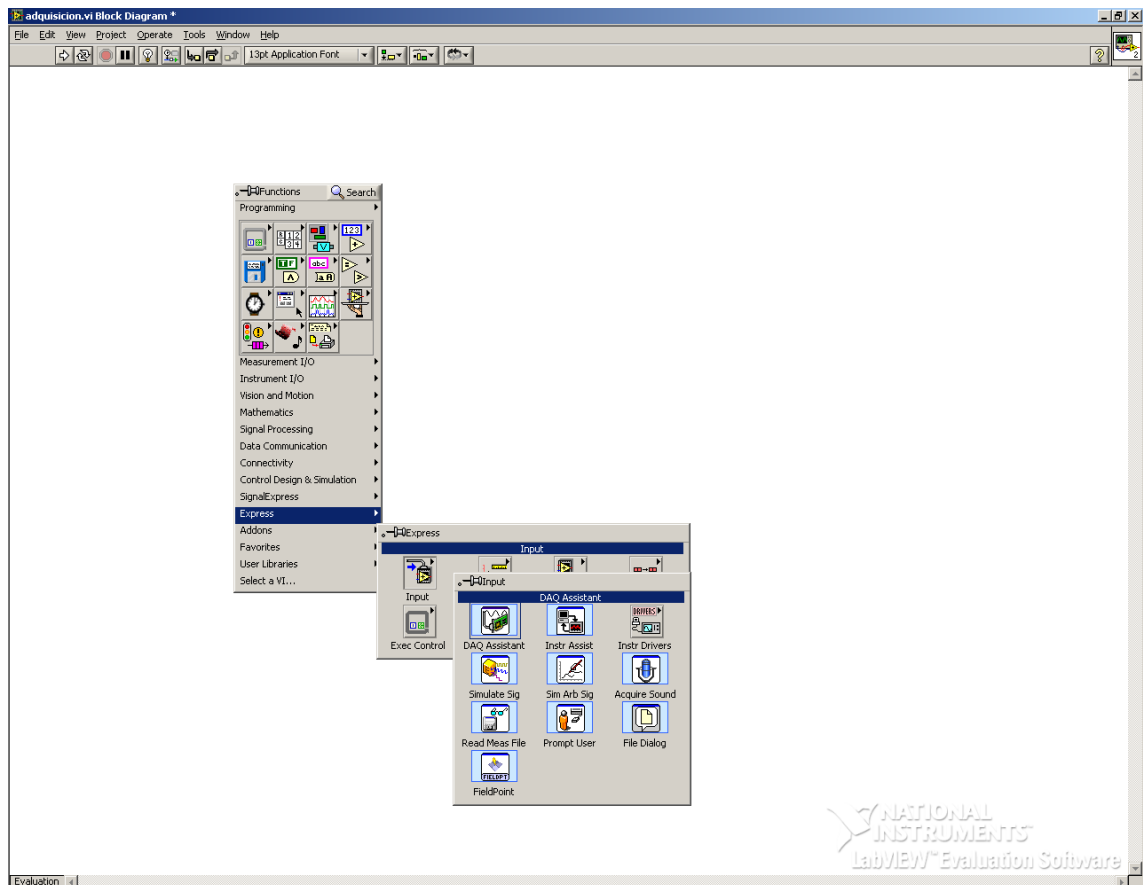
5. Repetir el procedimiento con el otro canal de la tarjeta.

### 3. ENTRADAS DIGITALES

Creación del bloque DI:

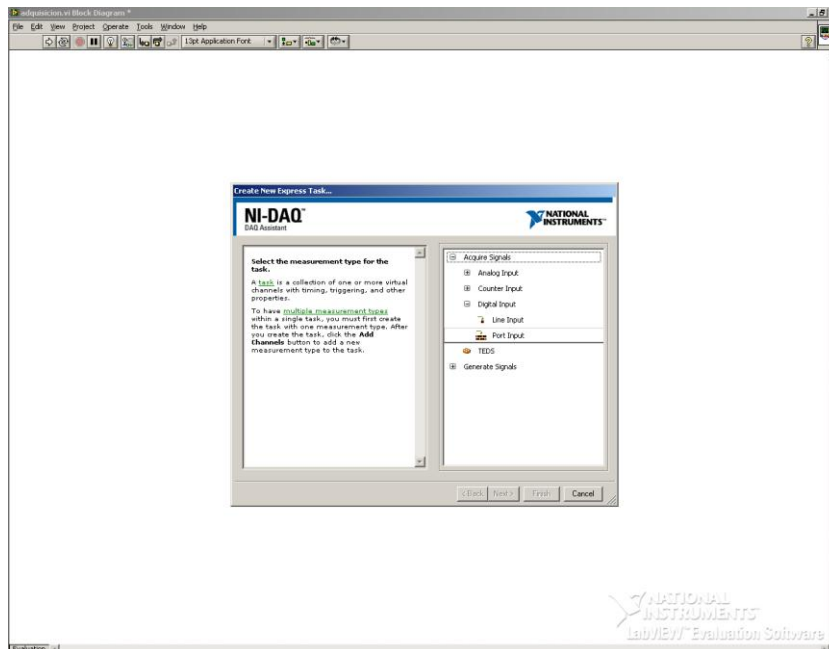


1. Buscar la función *DAQ Assistant* dentro de la categoría *Express -> Input*.

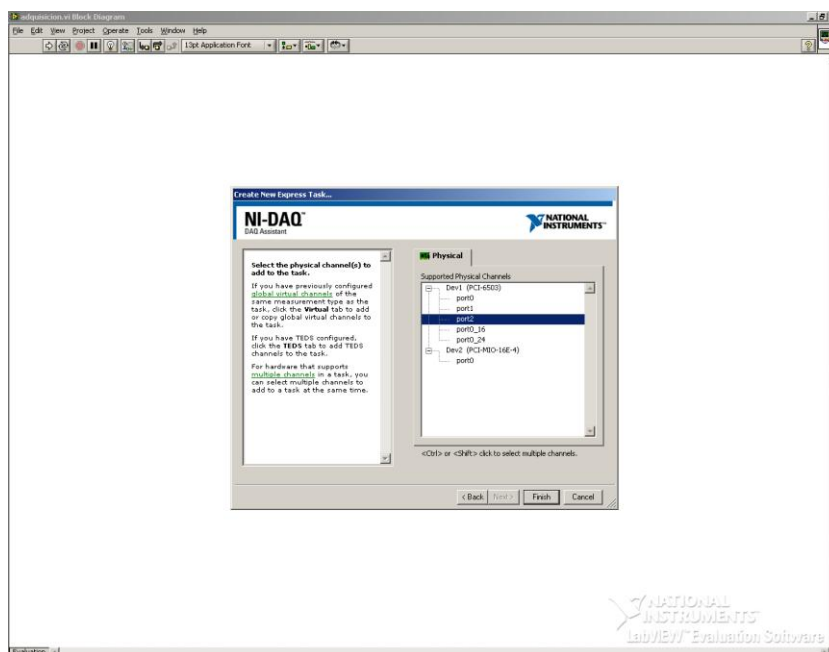




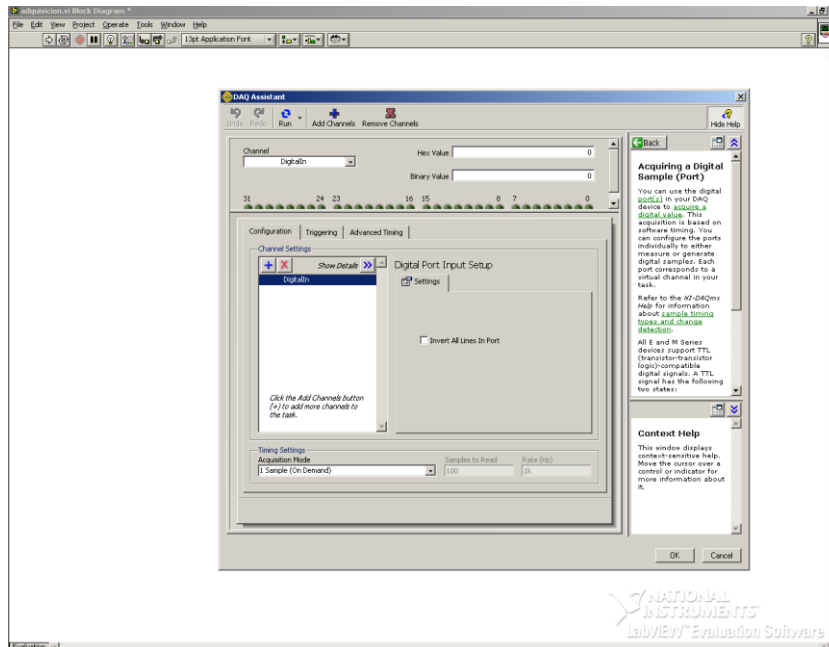
2. Seleccionar *Acquire Signal -> Digital Input -> Port Input* en la nueva ventana emergente.



3. Elegir el puerto 2 de la tarjeta PCI-6503.



4. Cambiar el modo de adquisición a una muestra por demanda.

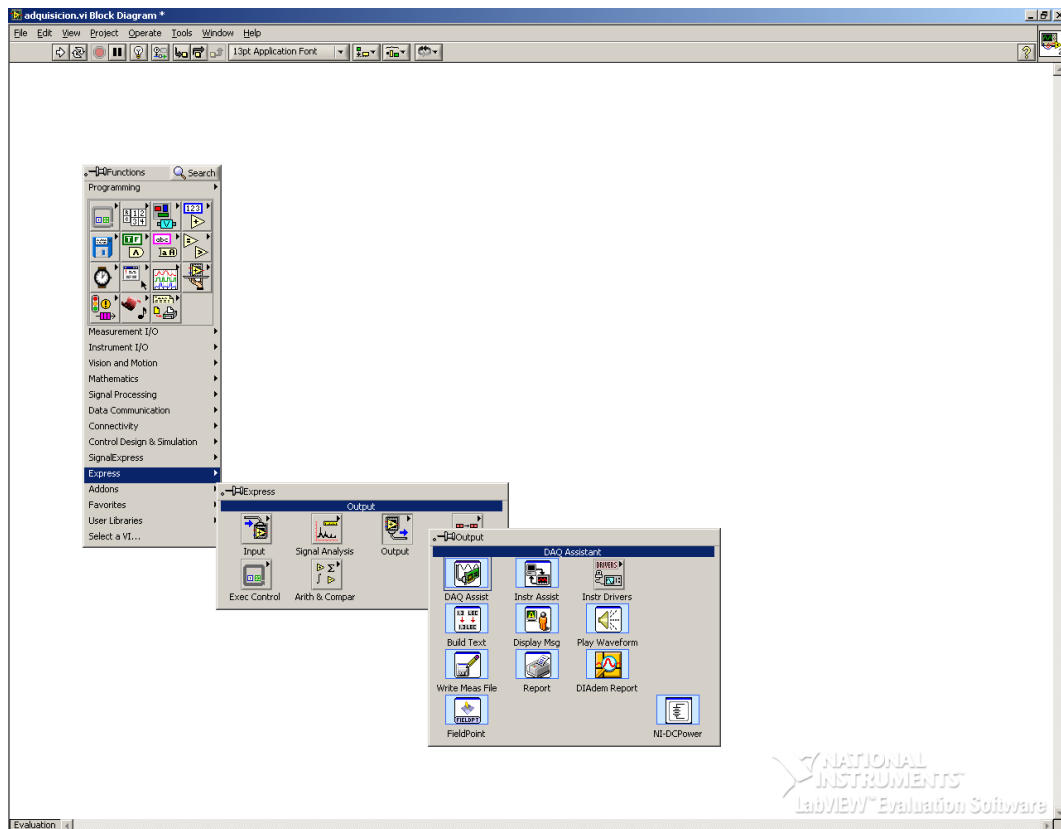


## 4. SALIDAS DIGITALES

Creación de los bloques DO 0-7 y DO 8-15:



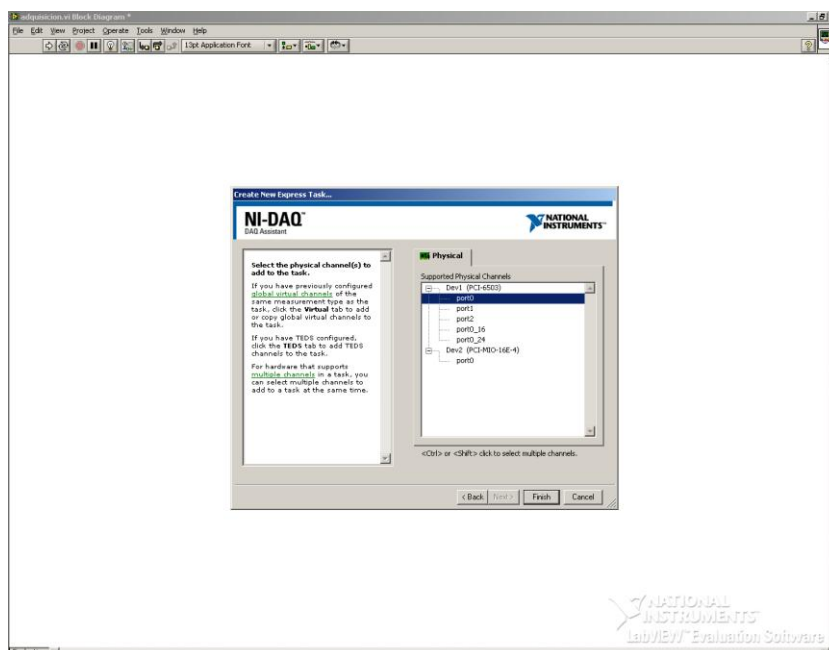
1. Buscar la función *DAQ Assistant* dentro de la categoría *Express -> Output*.



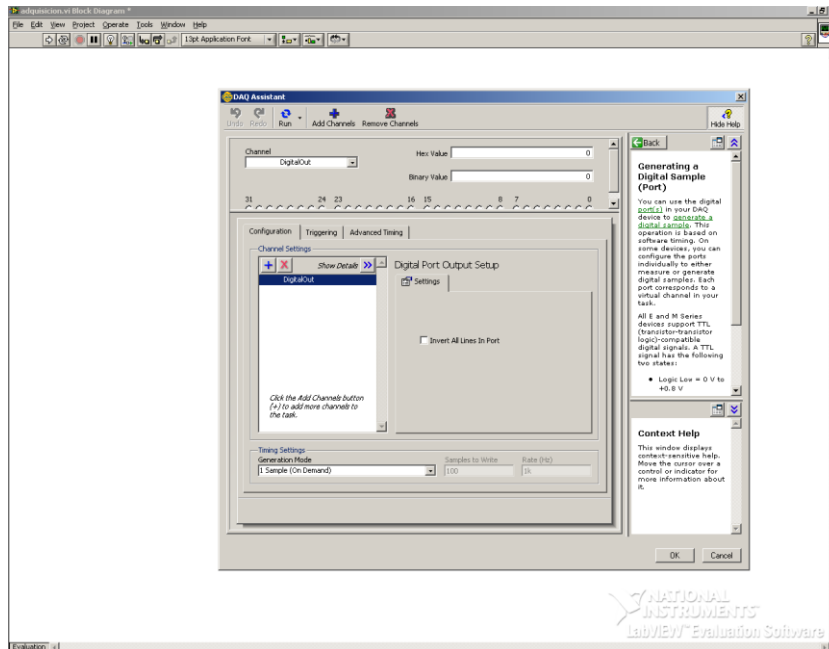
2. Seleccionar *Acquire Signal* -> *Analog Output* -> *Port Output* en la nueva ventana emergente



3. Elegir el puerto 0 de la tarjeta PCI-6503.



4. Cambiar el modo de adquisición a una muestra por demanda.

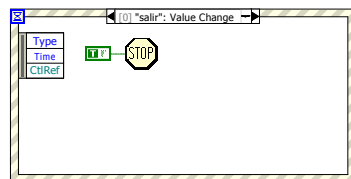
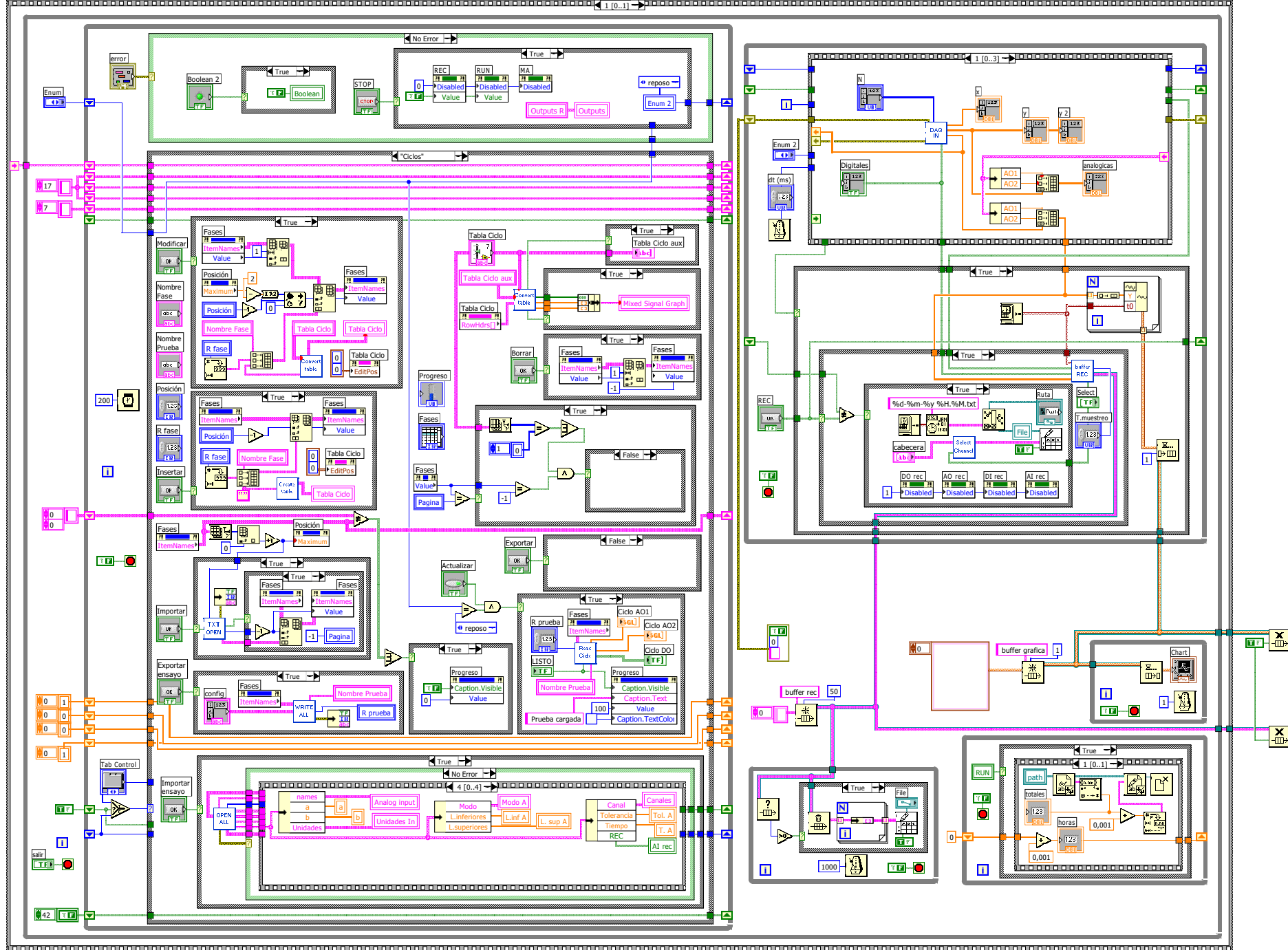


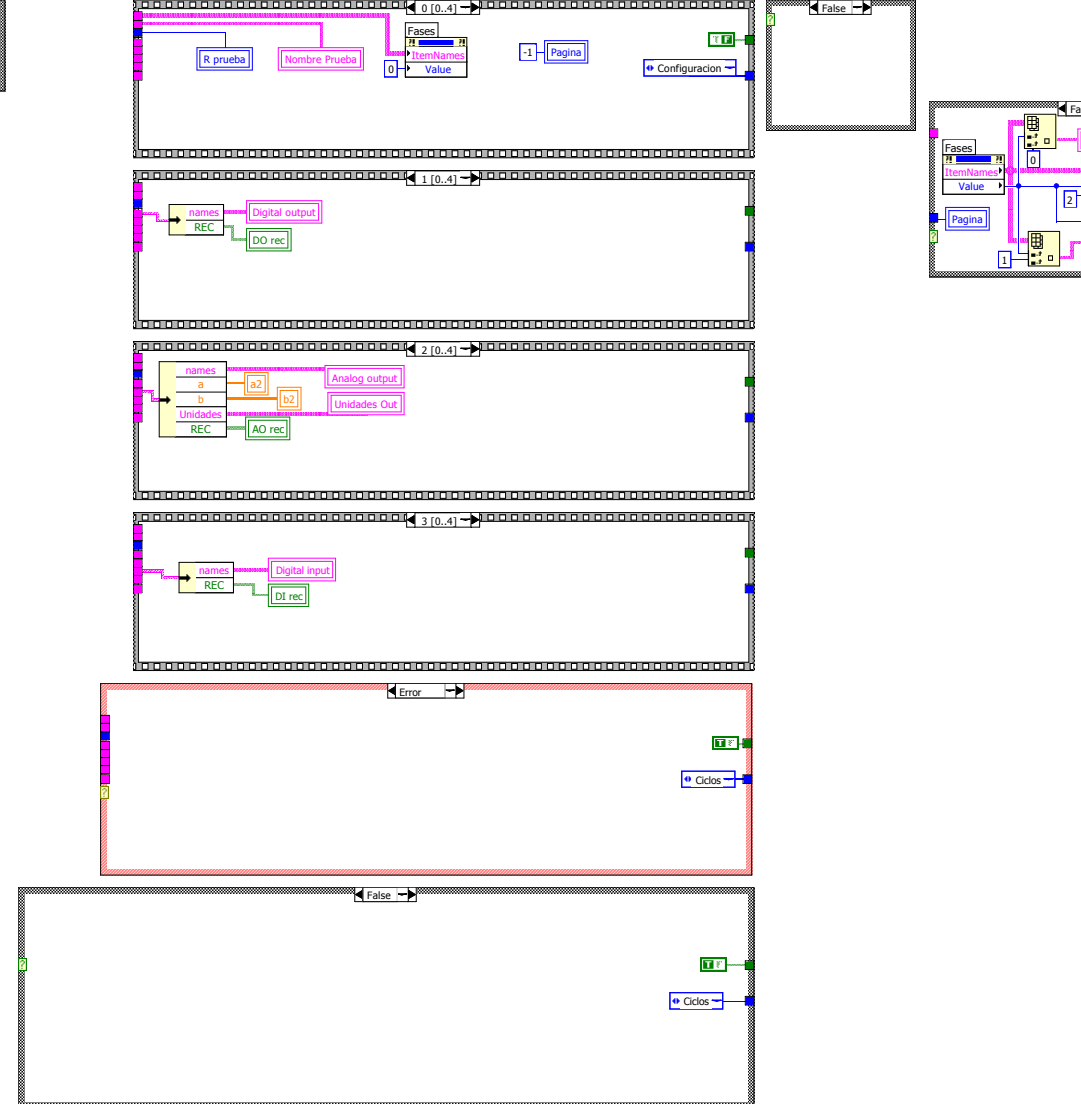
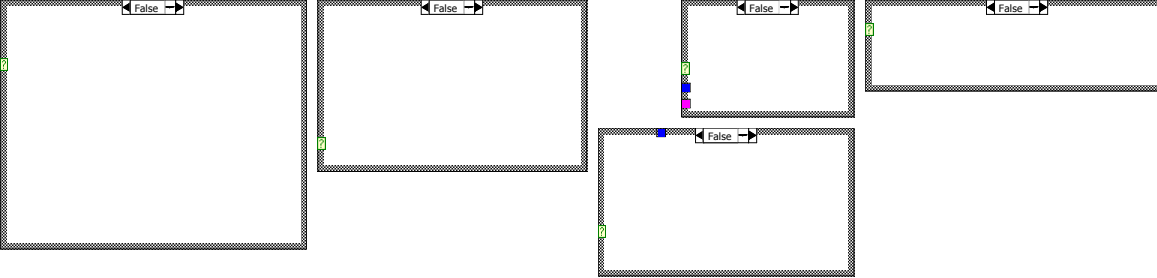
5. Repetir el procedimiento para el puerto 1 de la misma tarjeta.

## DIAGRAMA DE BLOQUES DEL PROGRAMA

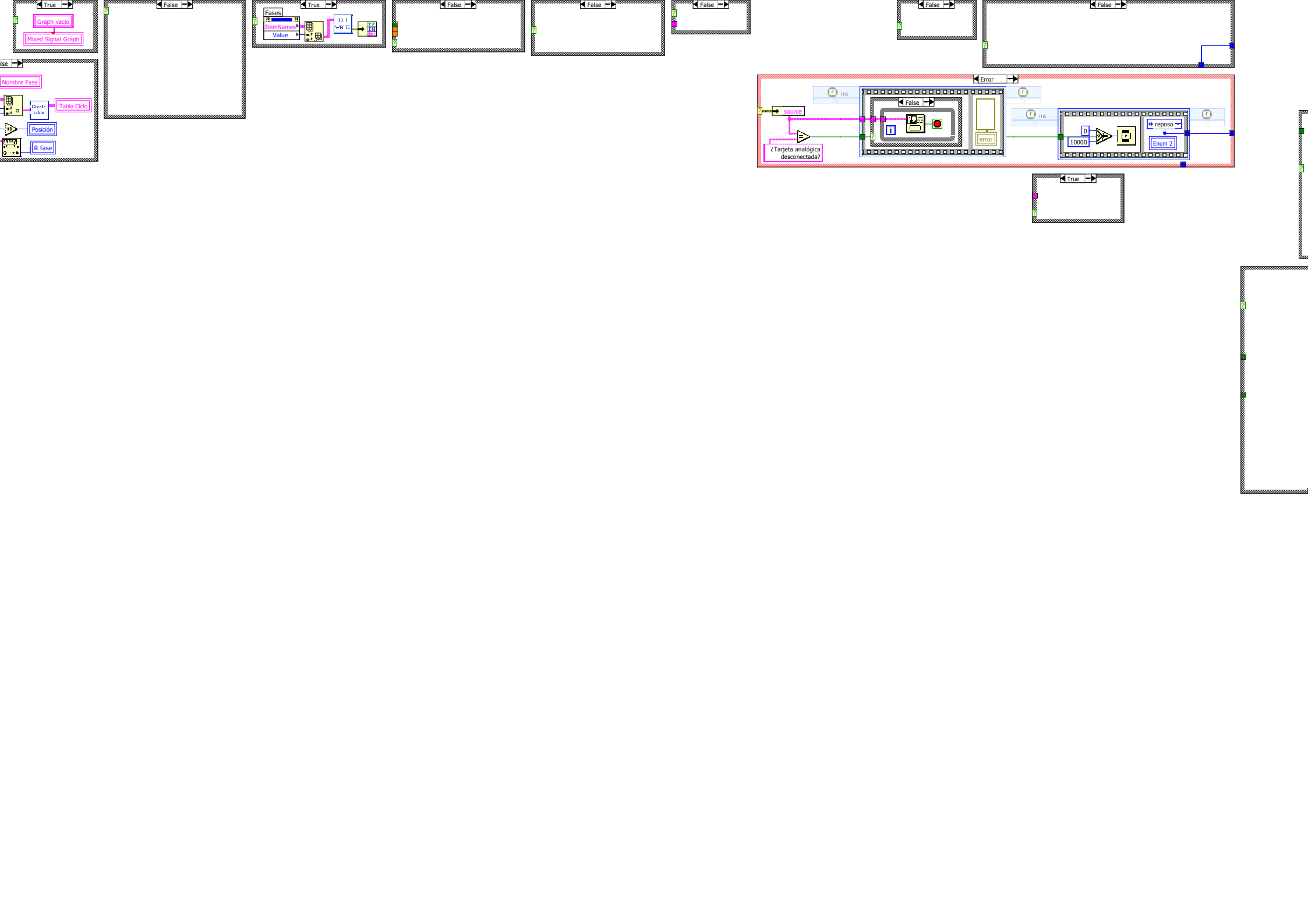
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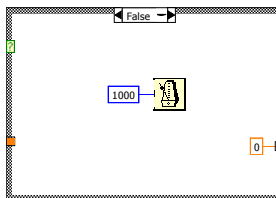
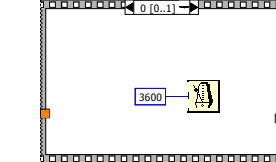
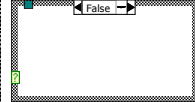
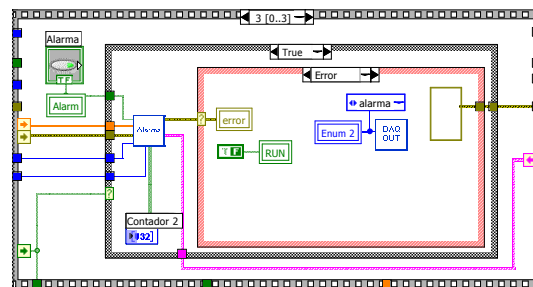
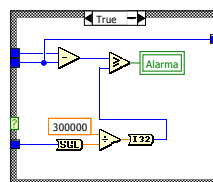
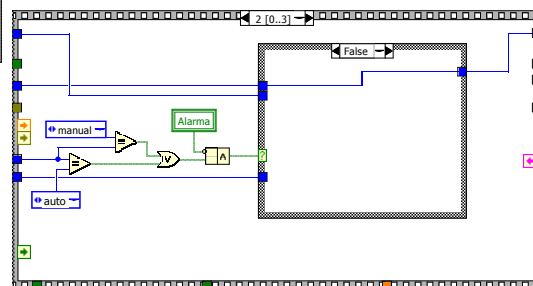
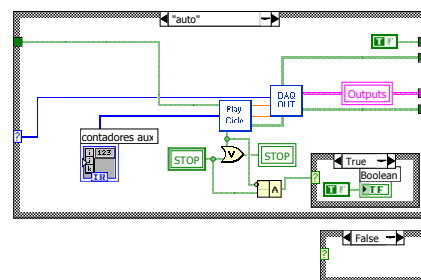
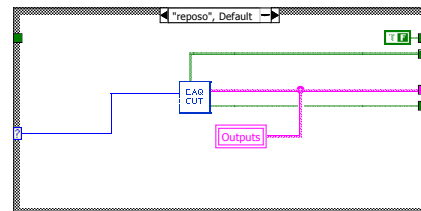
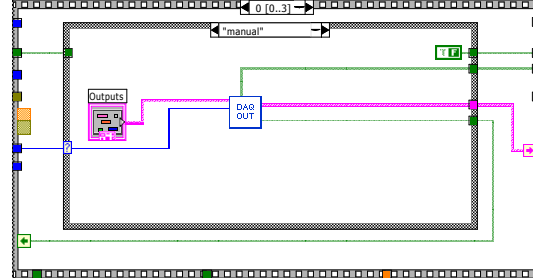
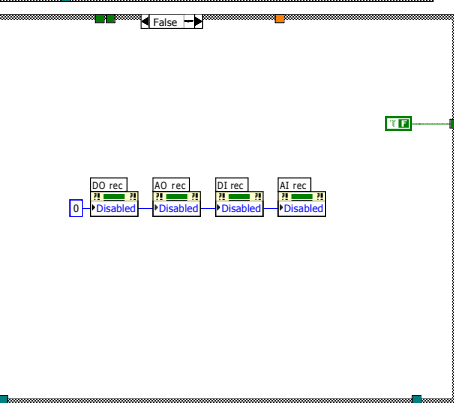
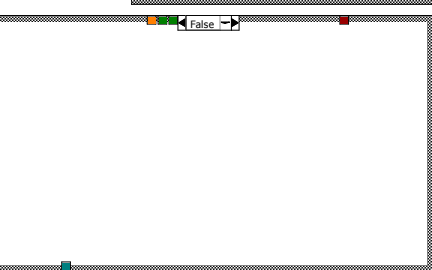
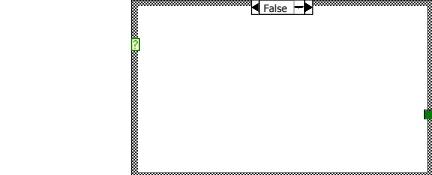
1.	PROGRAMA.VI.....	- 2 -
2.	ALARMAS.VI .....	- 19 -
3.	BUFFER REC.VI .....	- 24 -
4.	CONVERTIR TABLA.VI .....	- 26 -
5.	CREAR CICLO.VI .....	- 36 -
6.	CREAR TABLA.VI.....	- 37 -
7.	ENTRADAS.VI.....	- 38 -
8.	FILTRO.VI .....	- 40 -
9.	FILTRO_ARRAY.VI.....	- 42 -
10.	OPEN ALL.VI .....	- 44 -
11.	PROMPT USER 1 .....	- 46 -
12.	REPRODUCIR CICLO.VI .....	- 47 -
13.	SALIDAS.VI .....	- 49 -
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15.	TXT OPEN.VI .....	- 52 -
16.	TXT WRITE.VI.....	- 53 -
17.	UNIDADES.VI.....	- 54 -
18.	WRITE ALL.VI.....	- 55 -

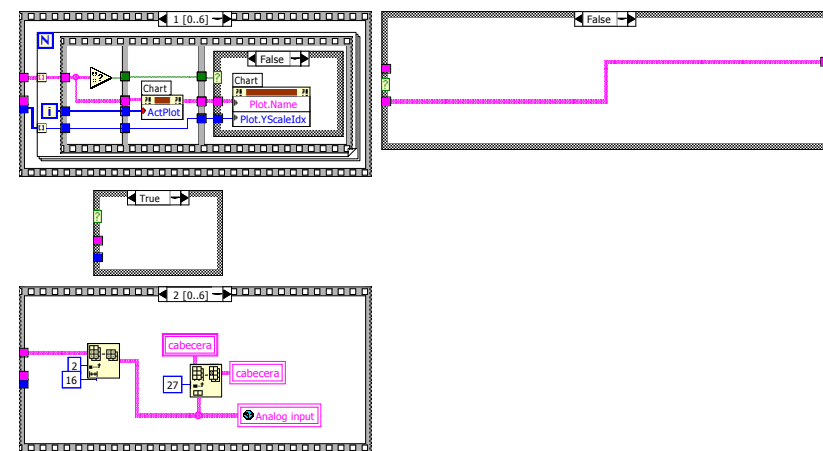
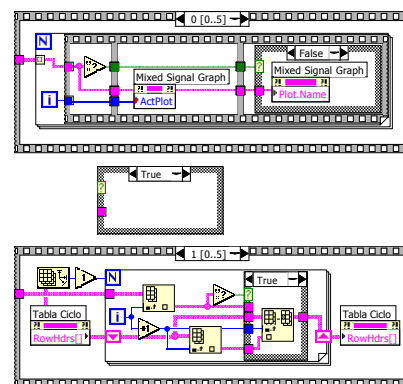
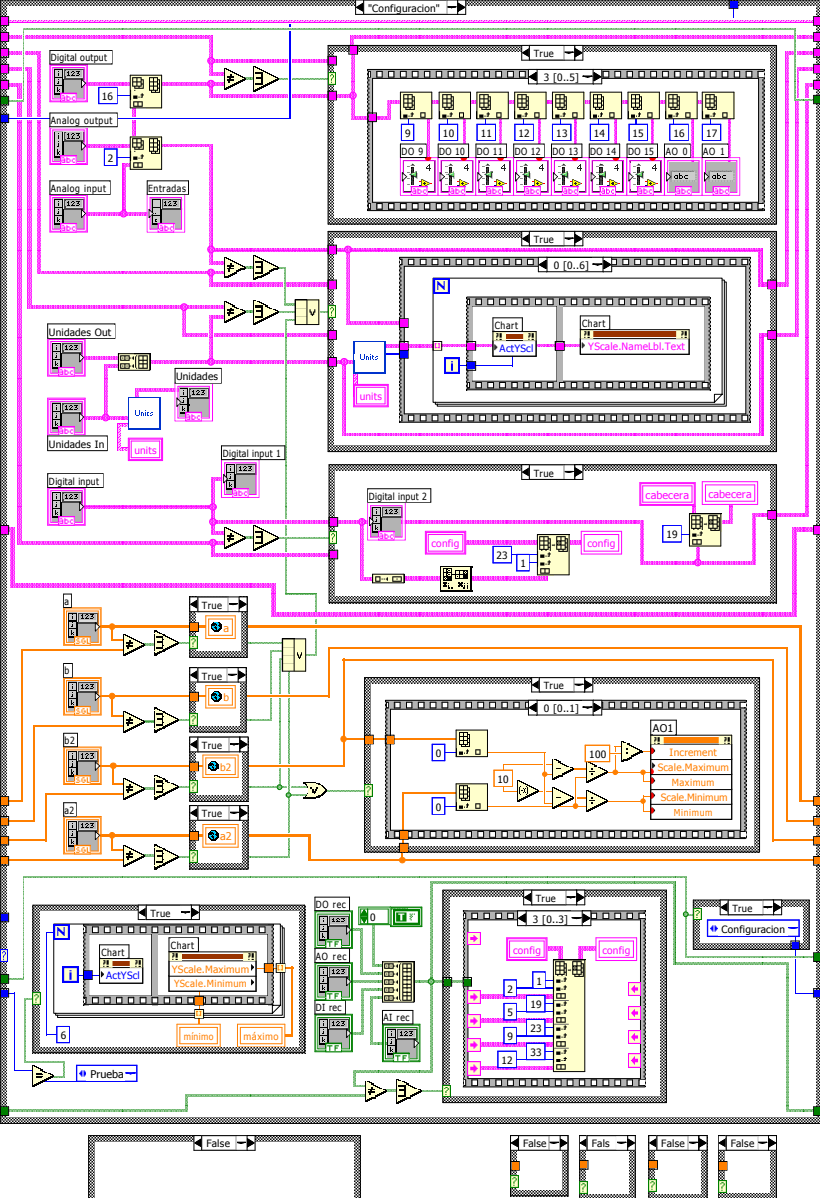


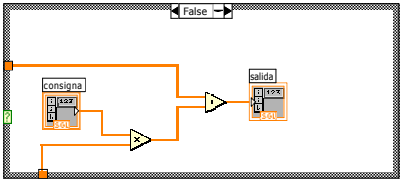
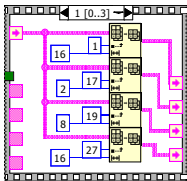
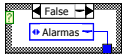
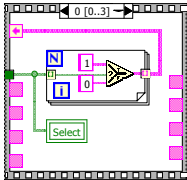
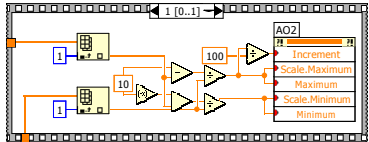


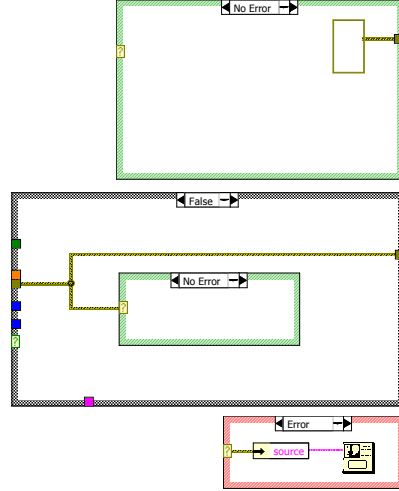


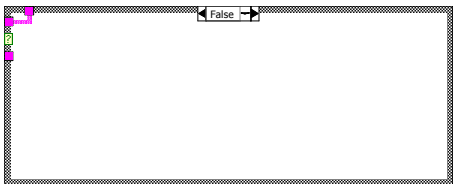
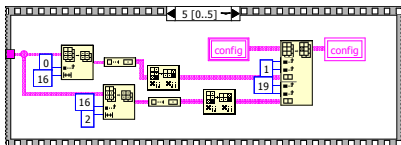
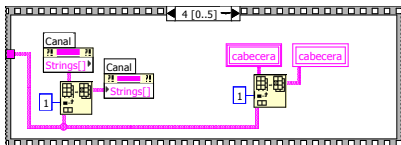
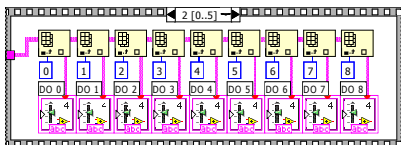


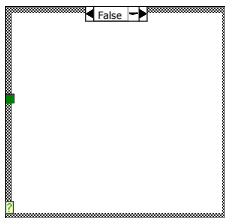
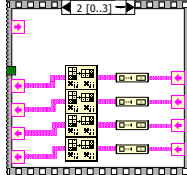


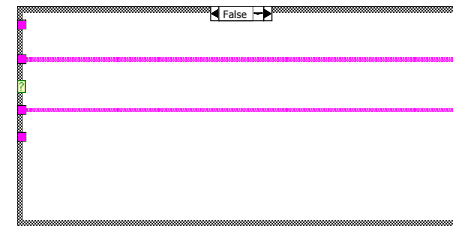
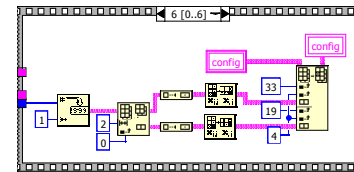
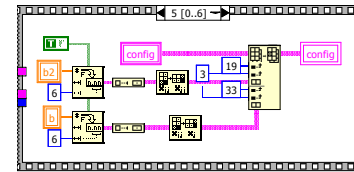
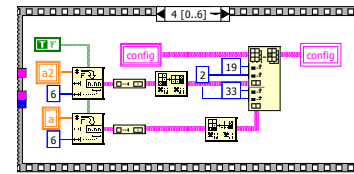
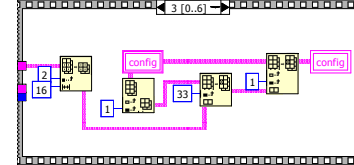




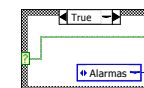
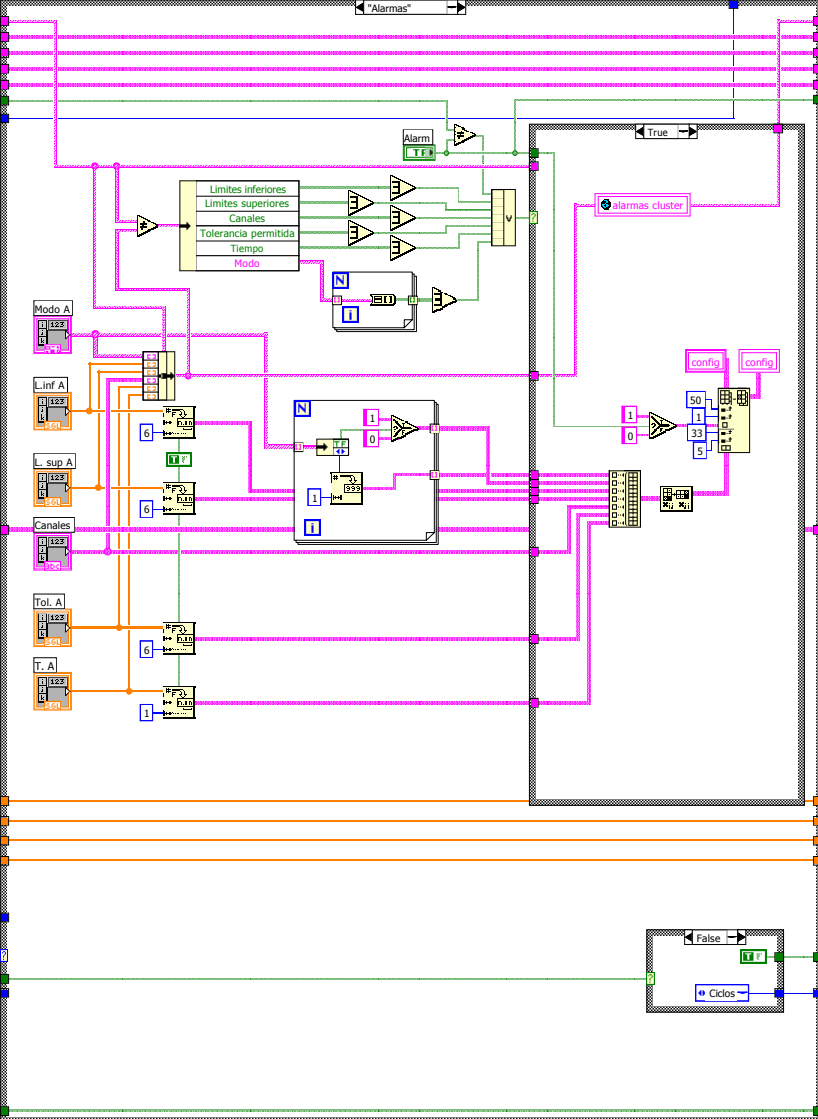


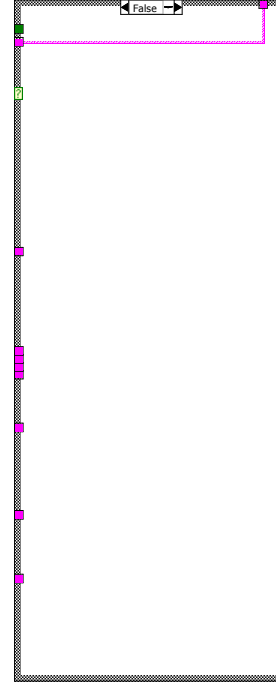


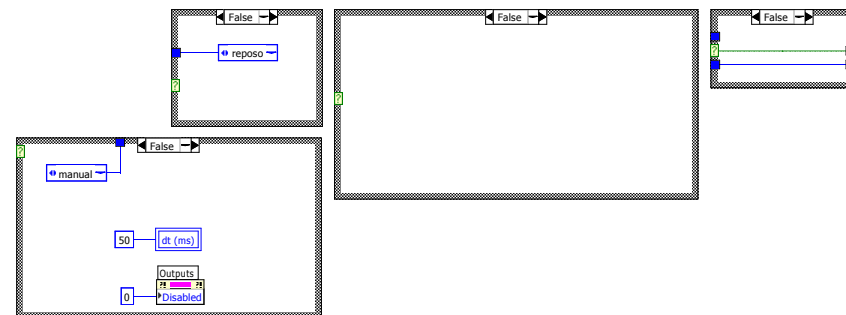
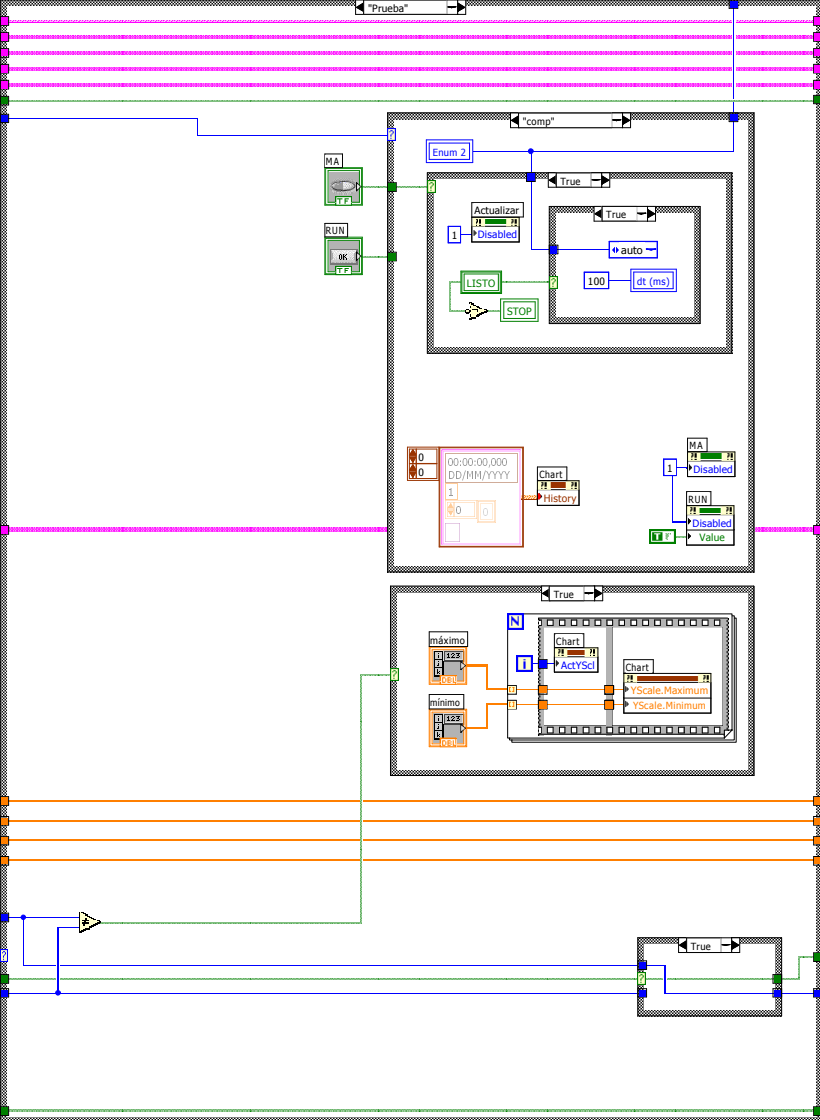


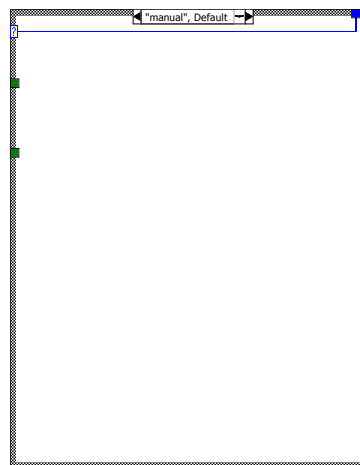
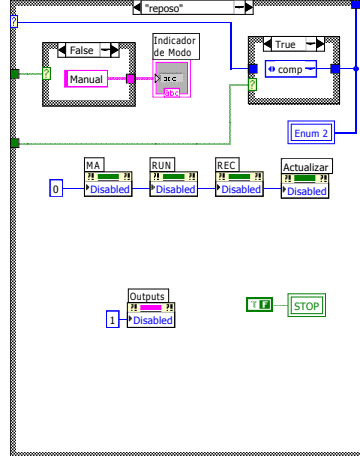


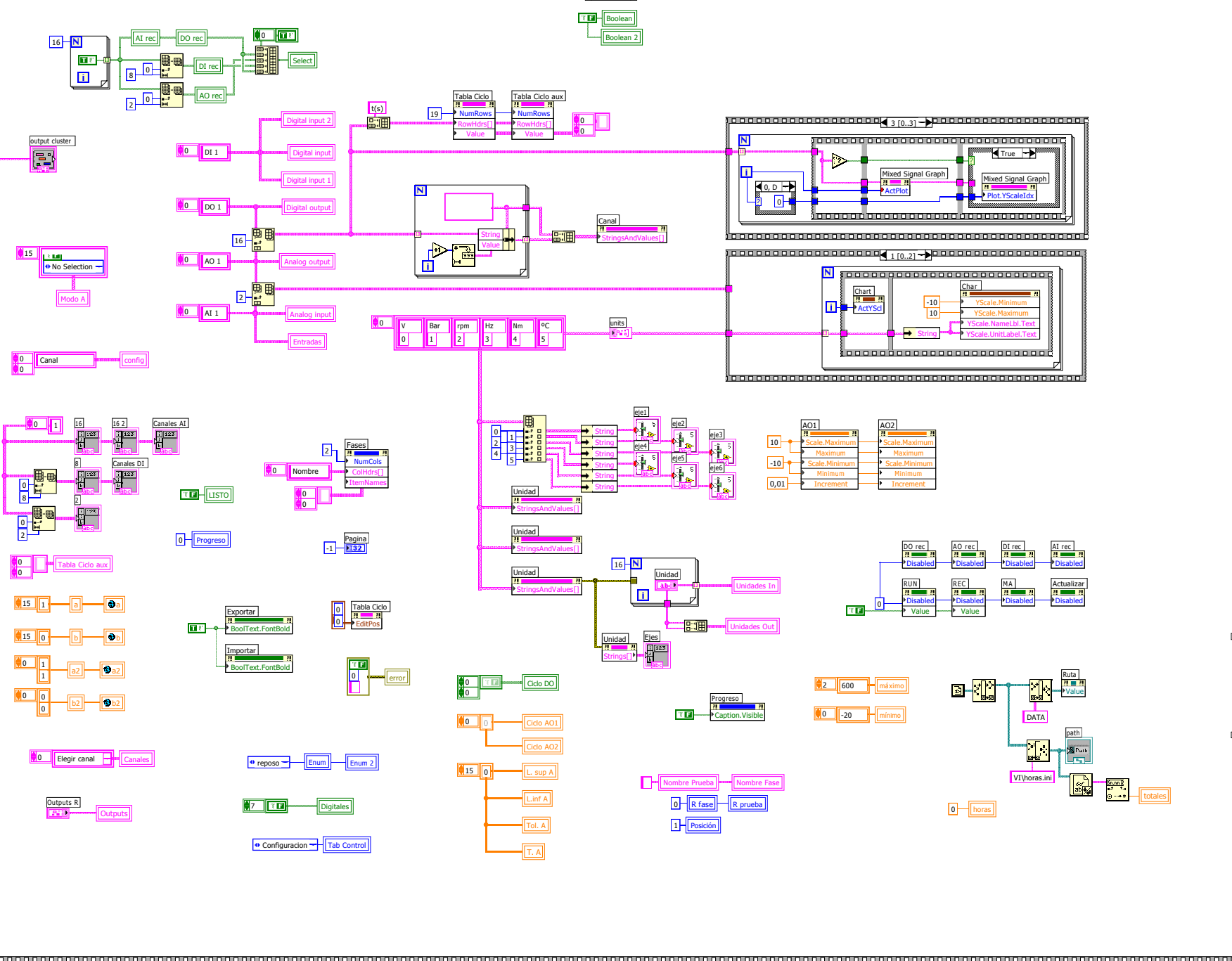


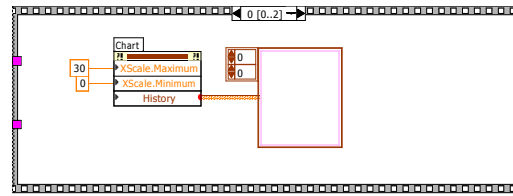
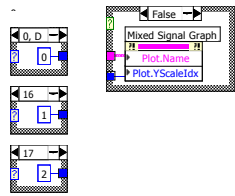


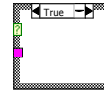
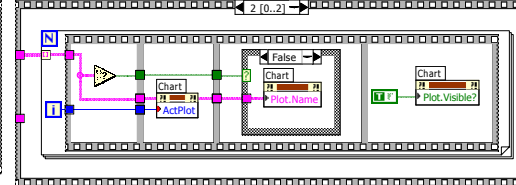
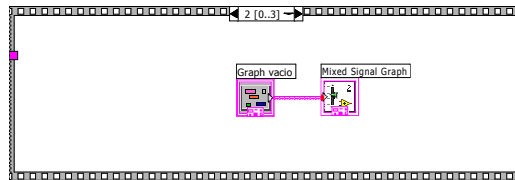
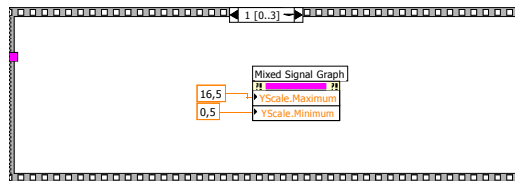
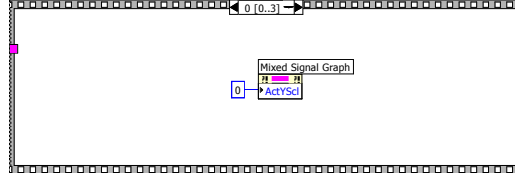


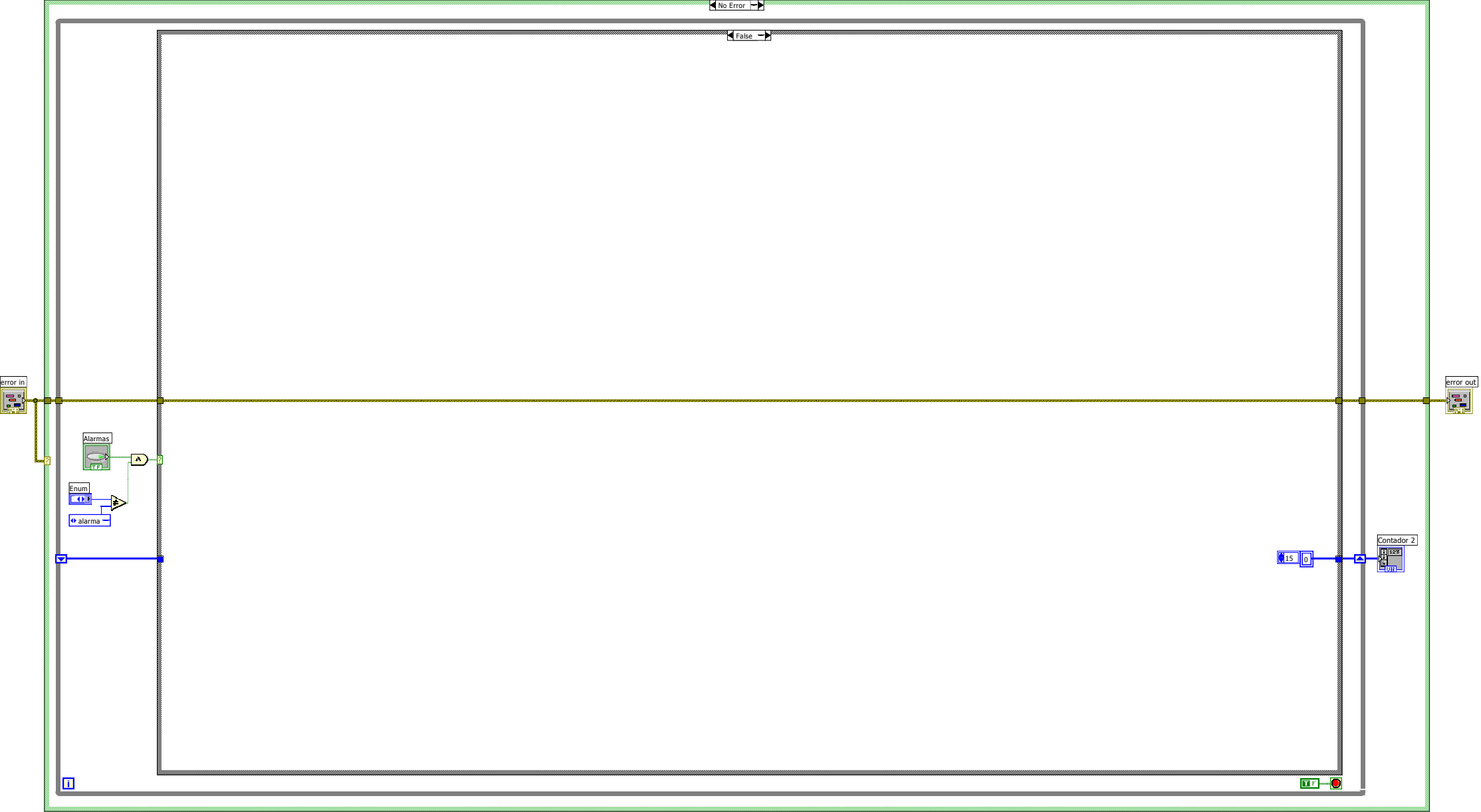




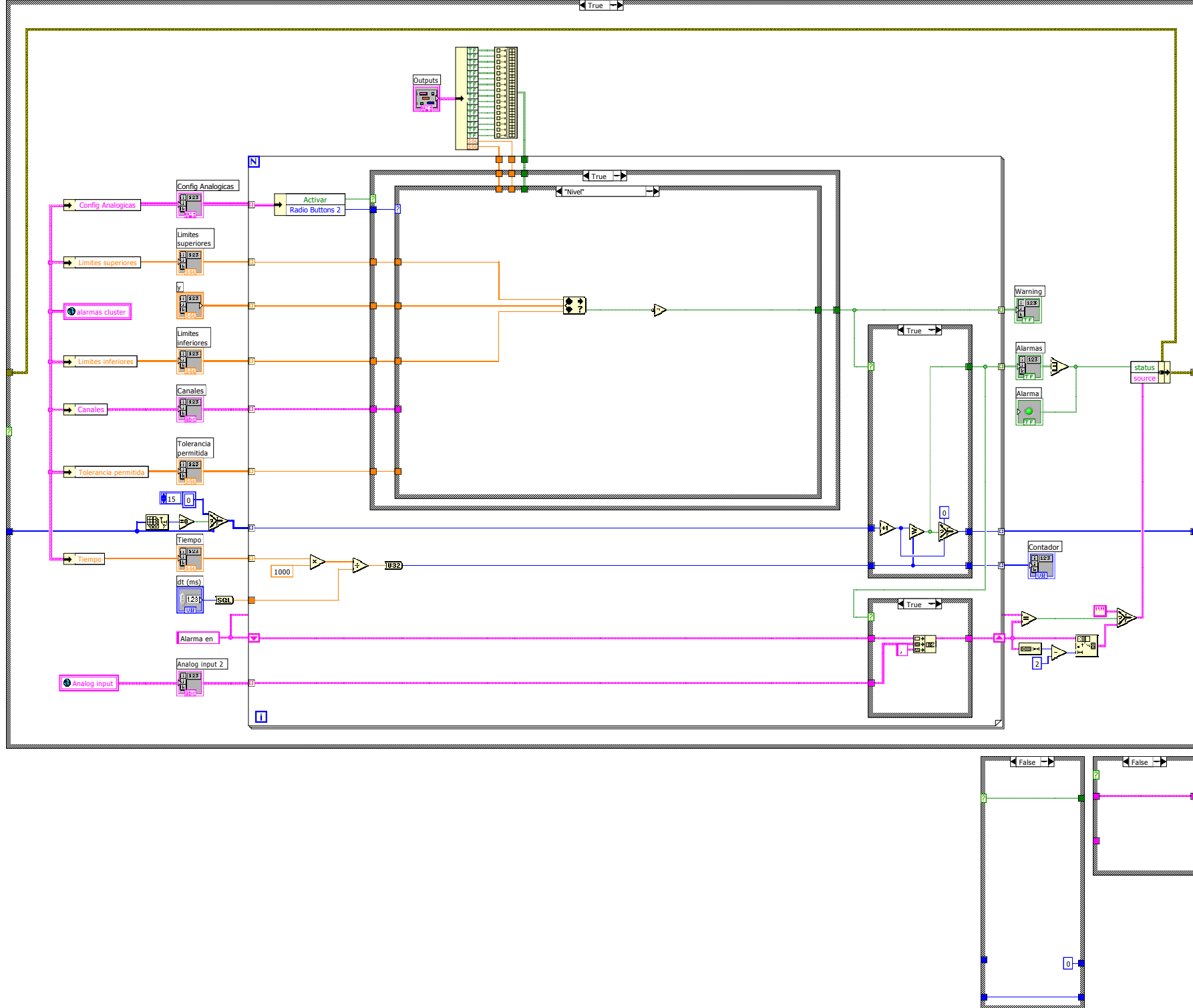


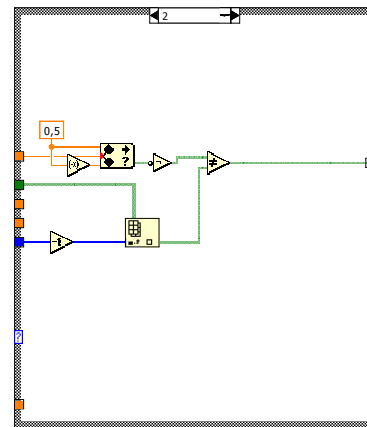
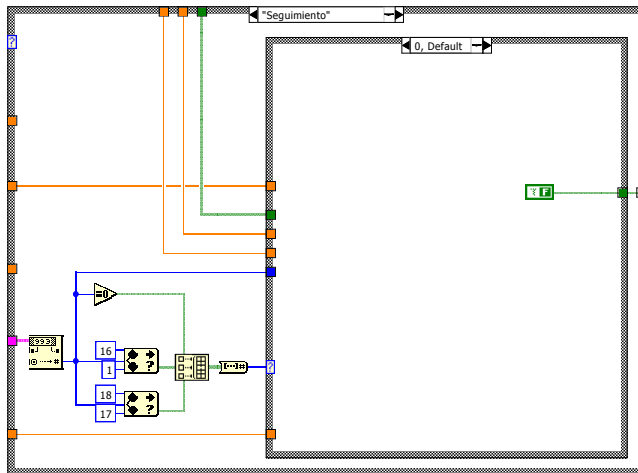
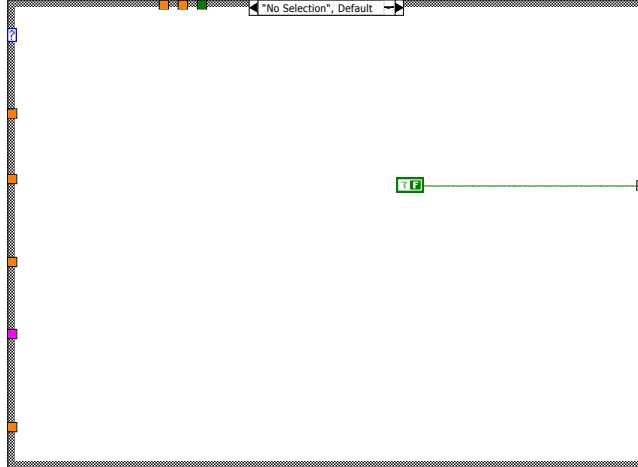


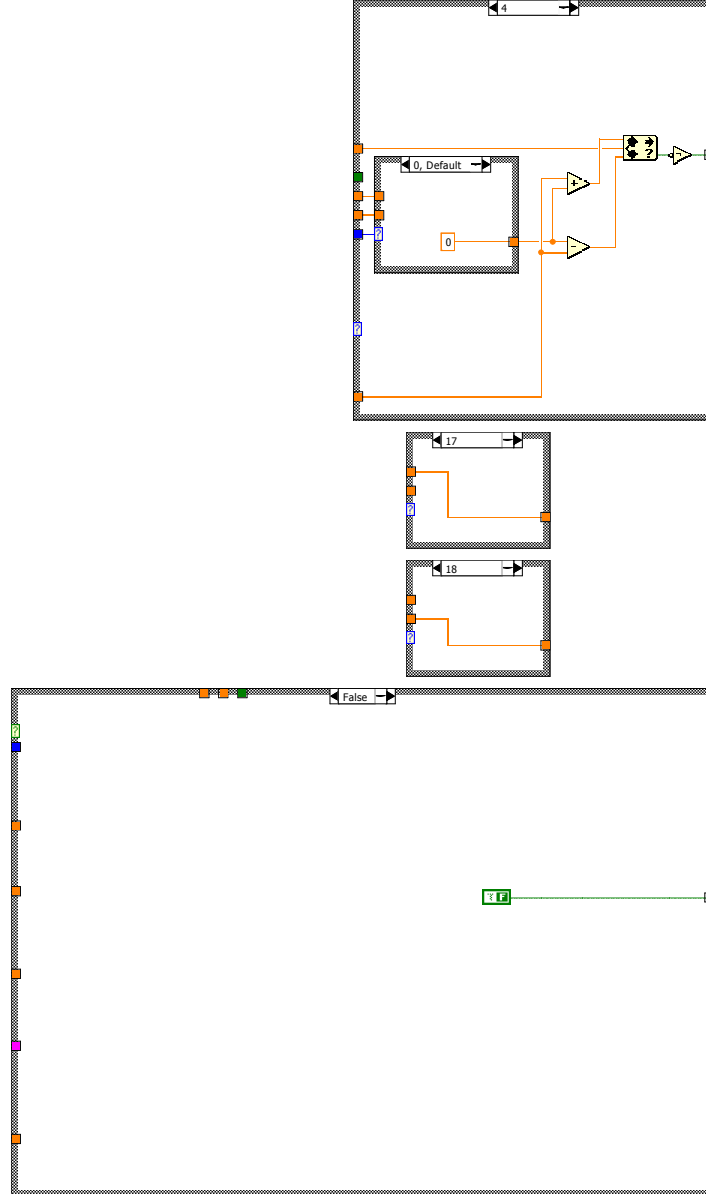




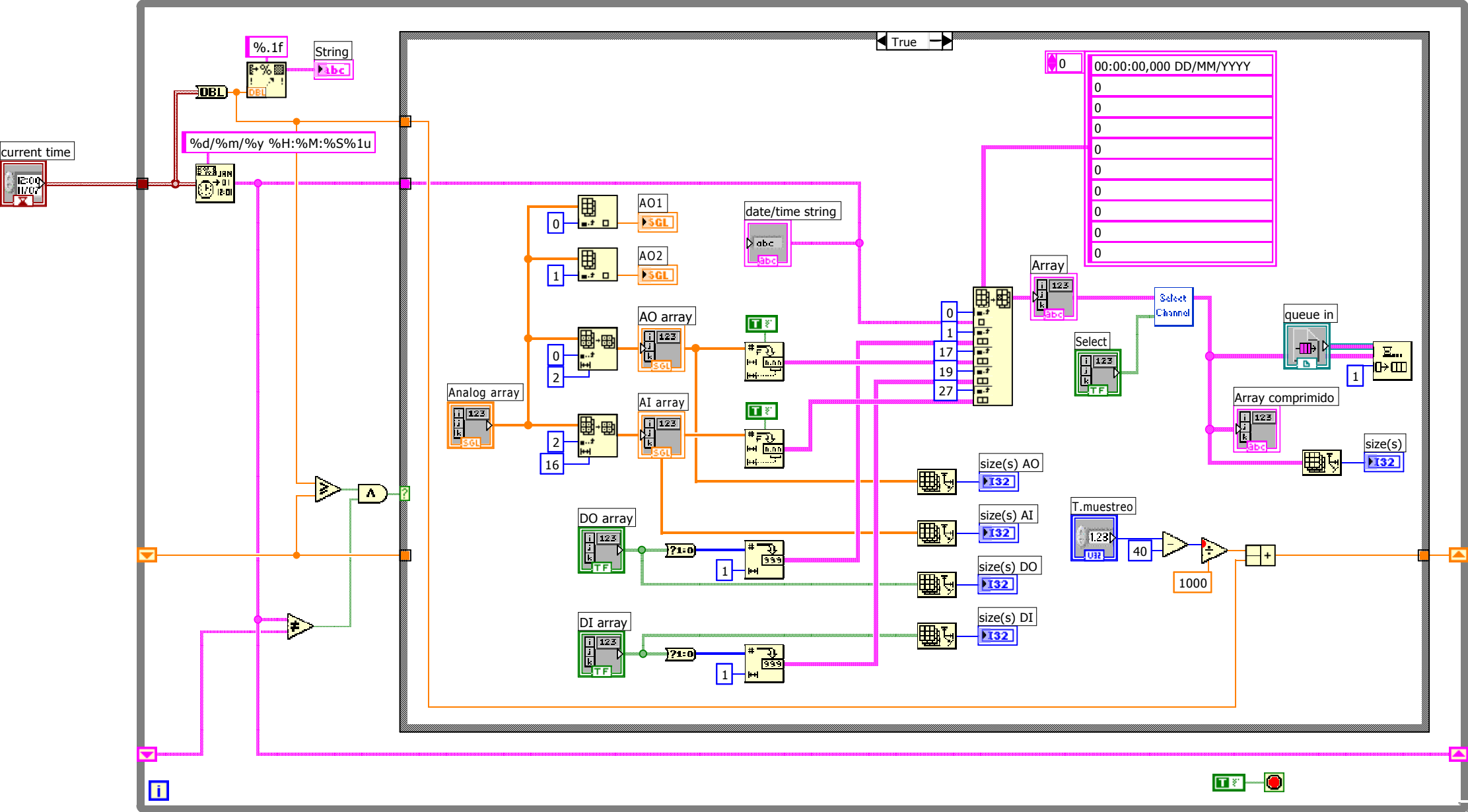












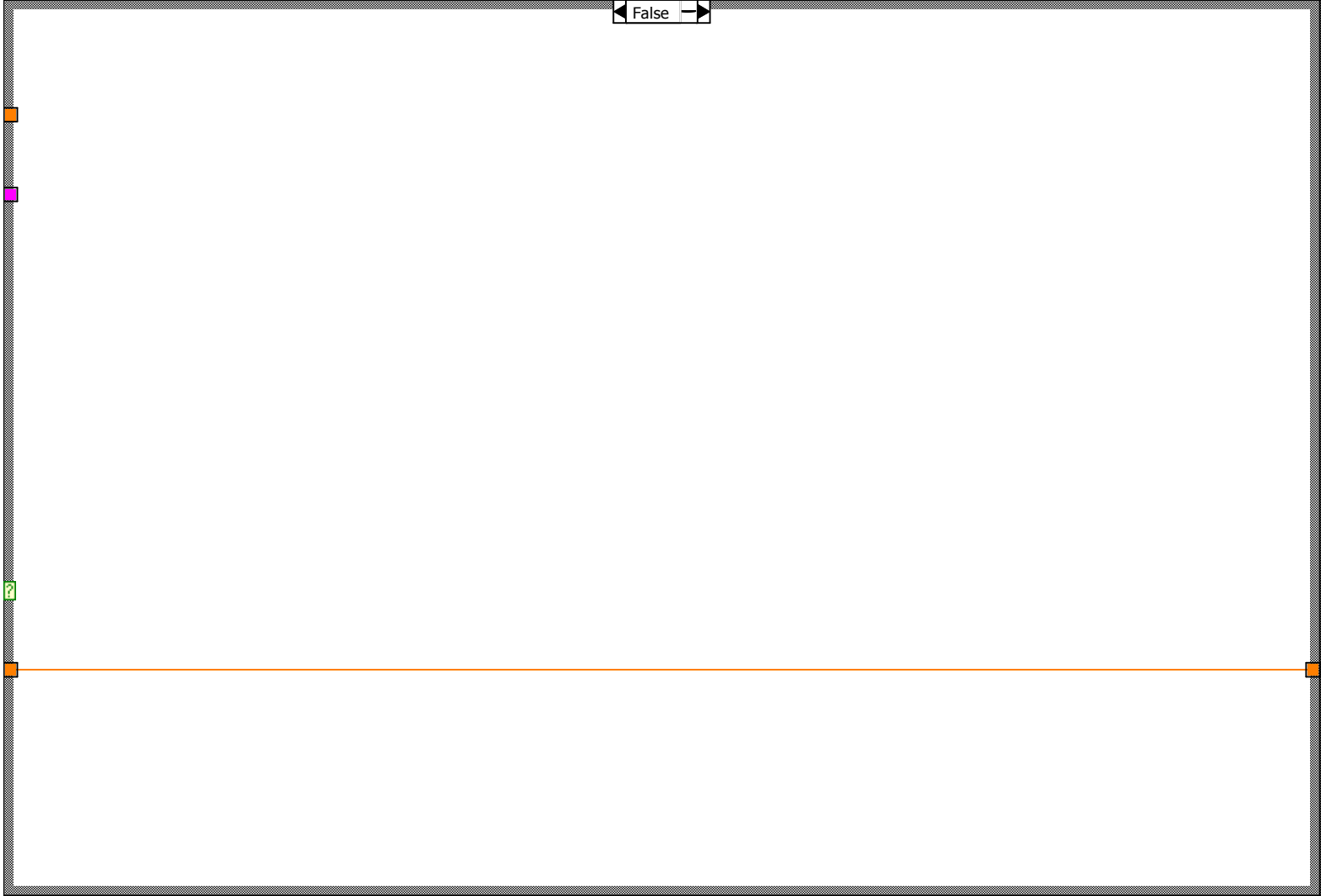
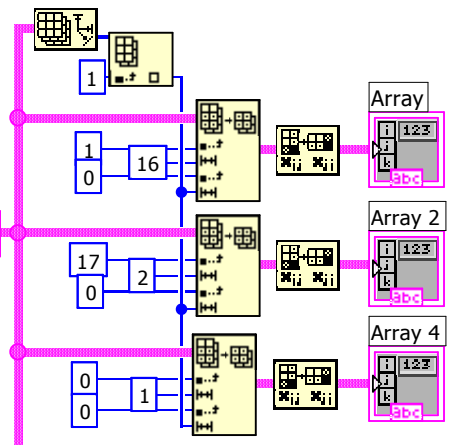
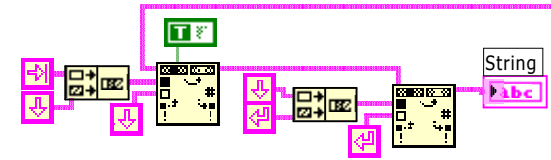
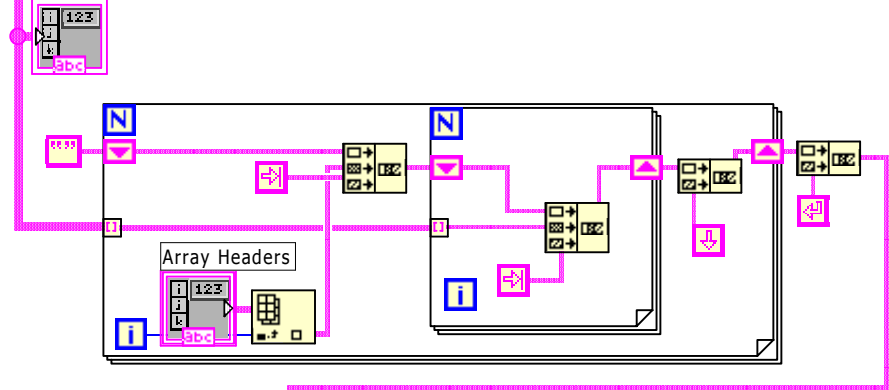


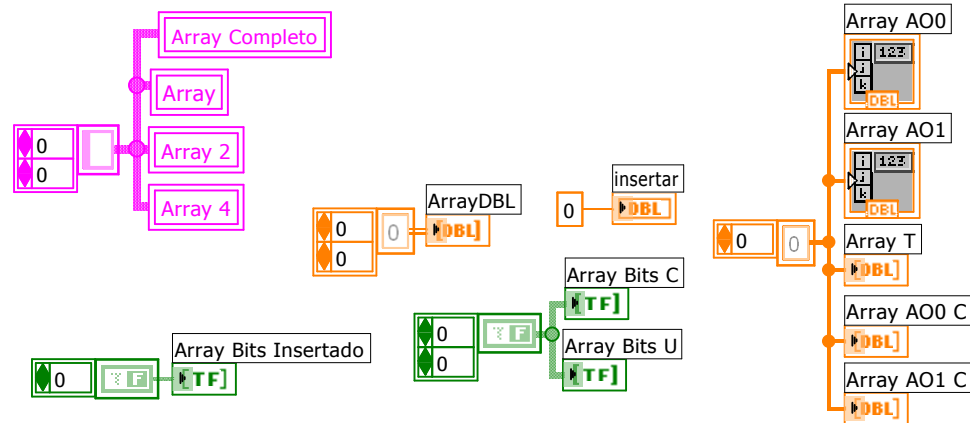
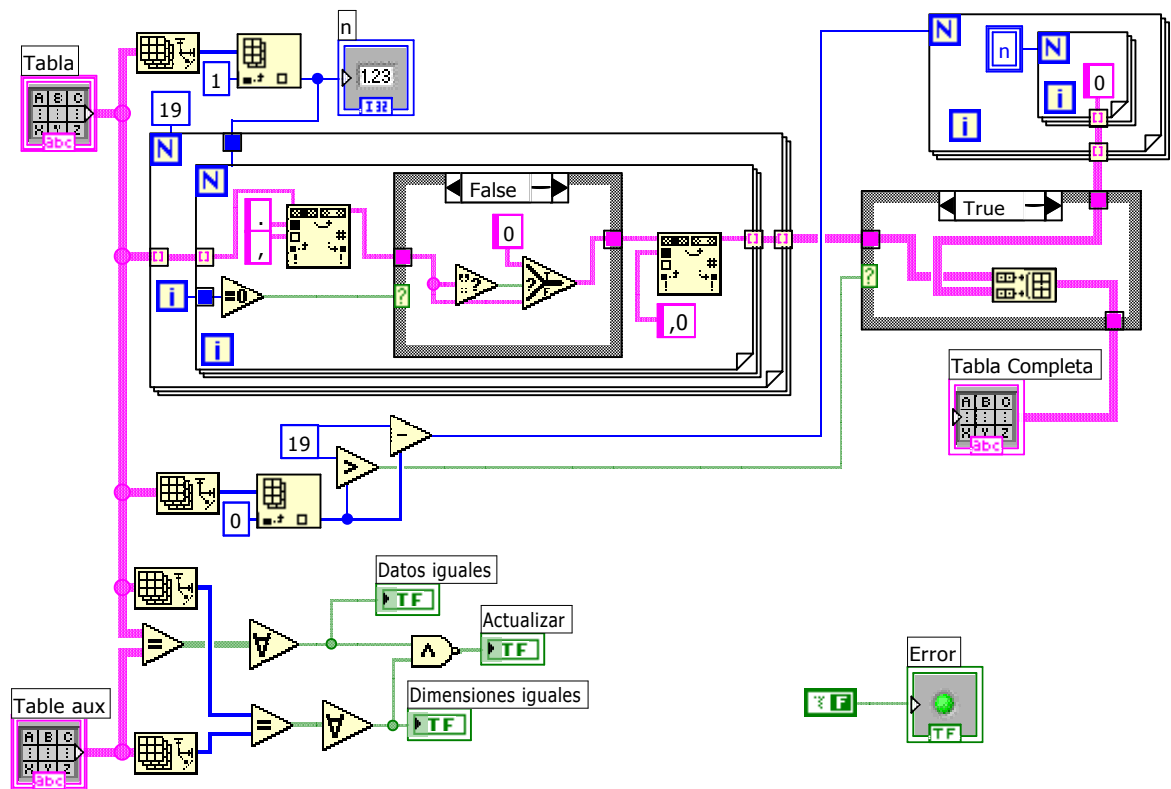
Tabla Completa



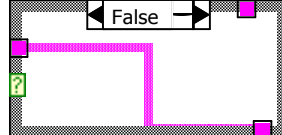
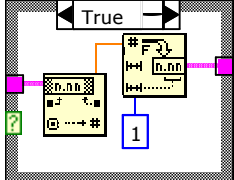
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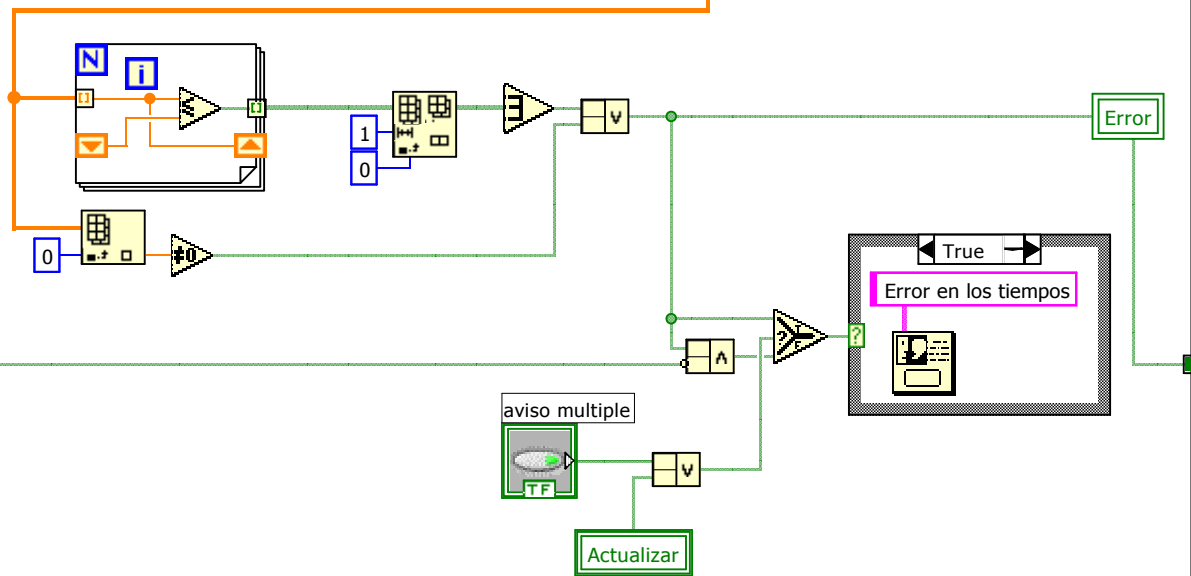
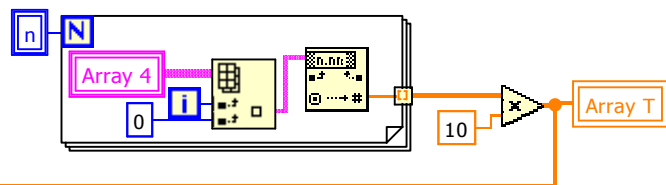
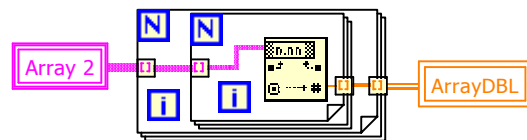
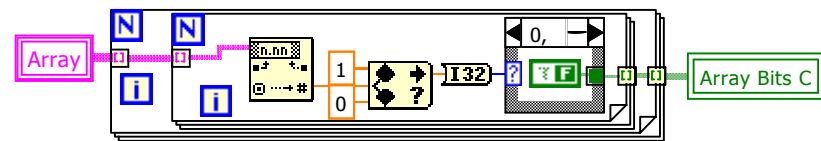


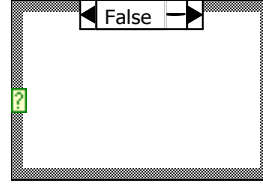
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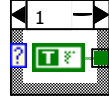




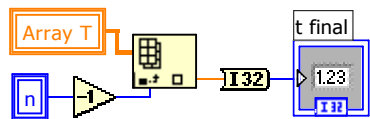
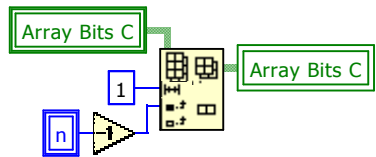
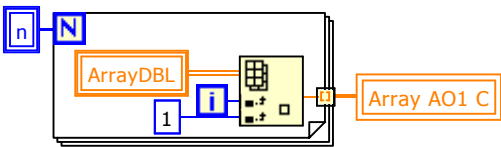
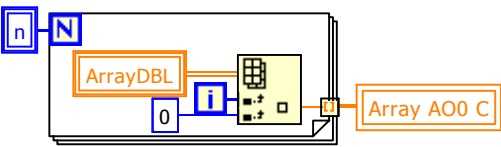


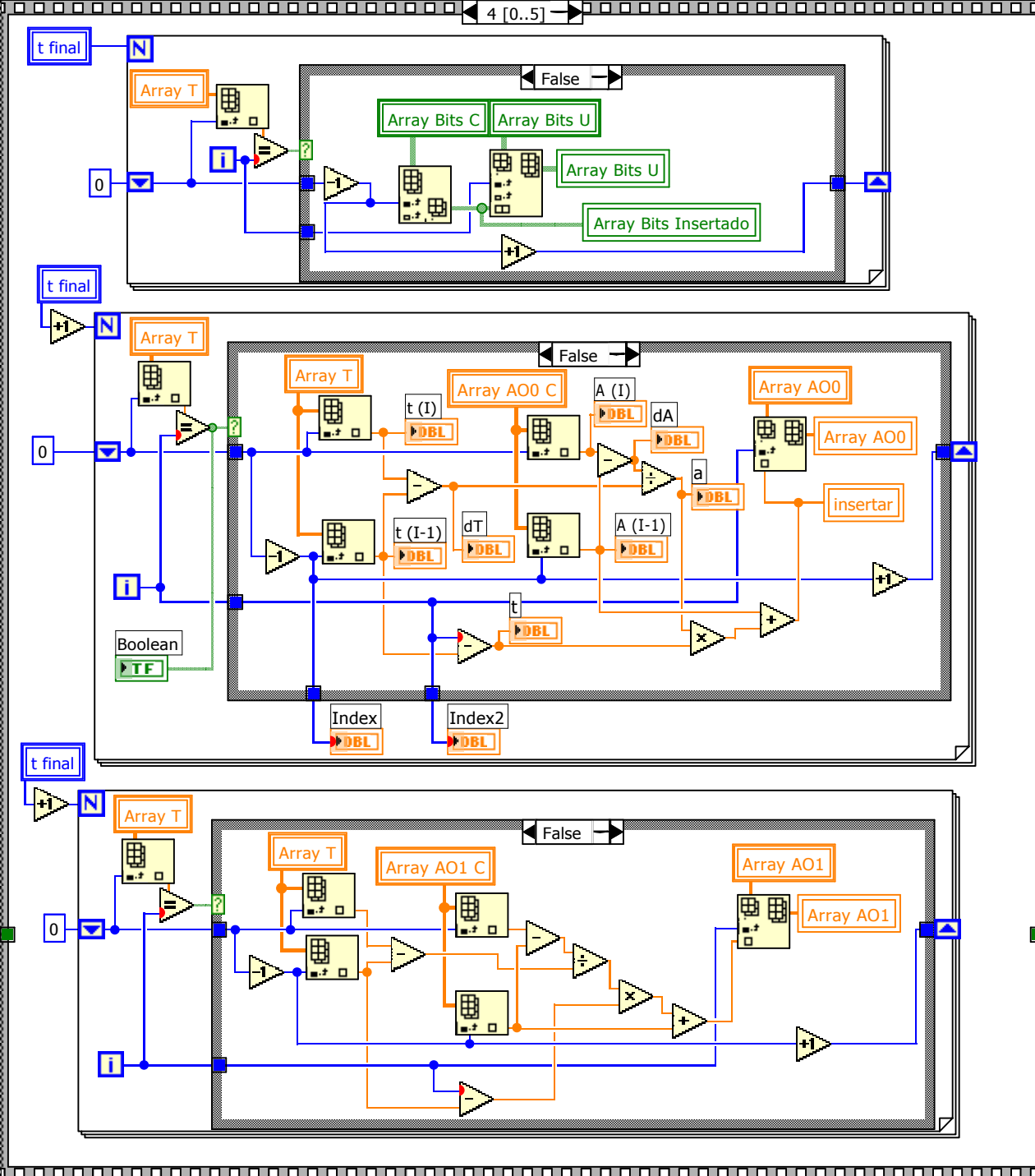


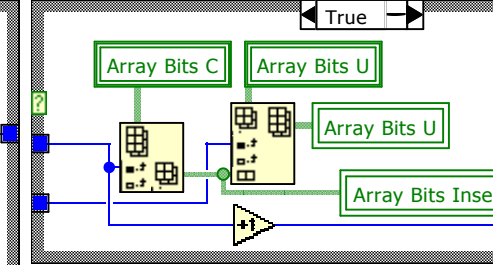
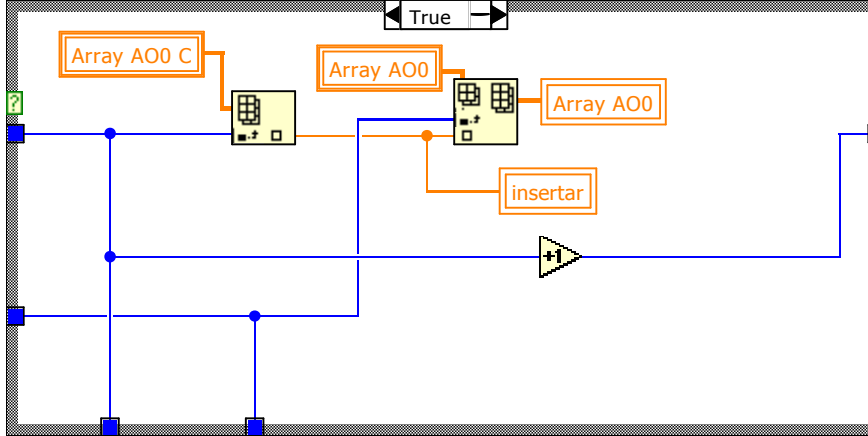
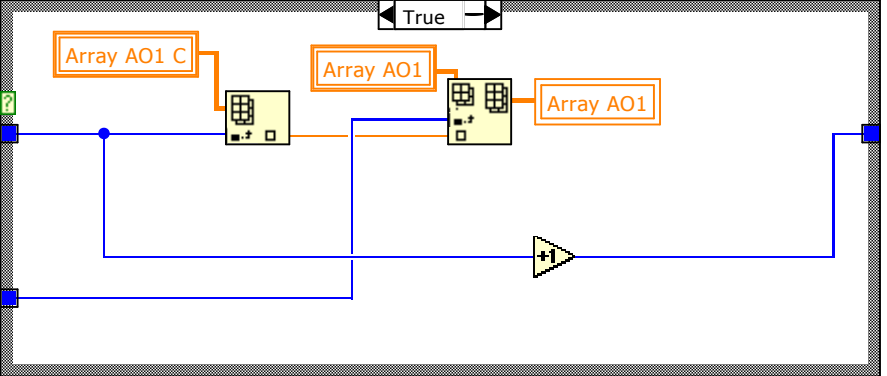


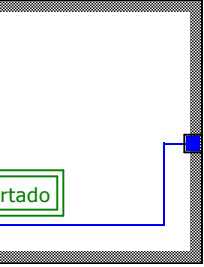


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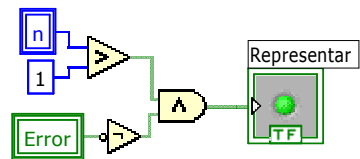
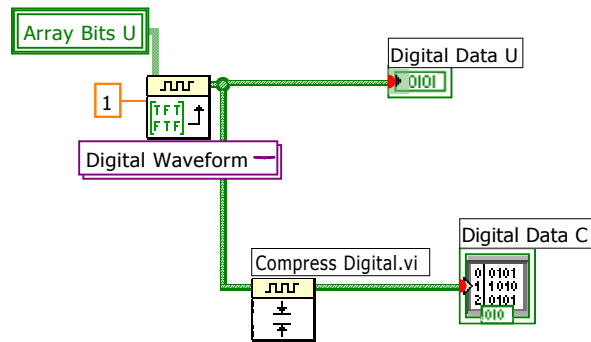




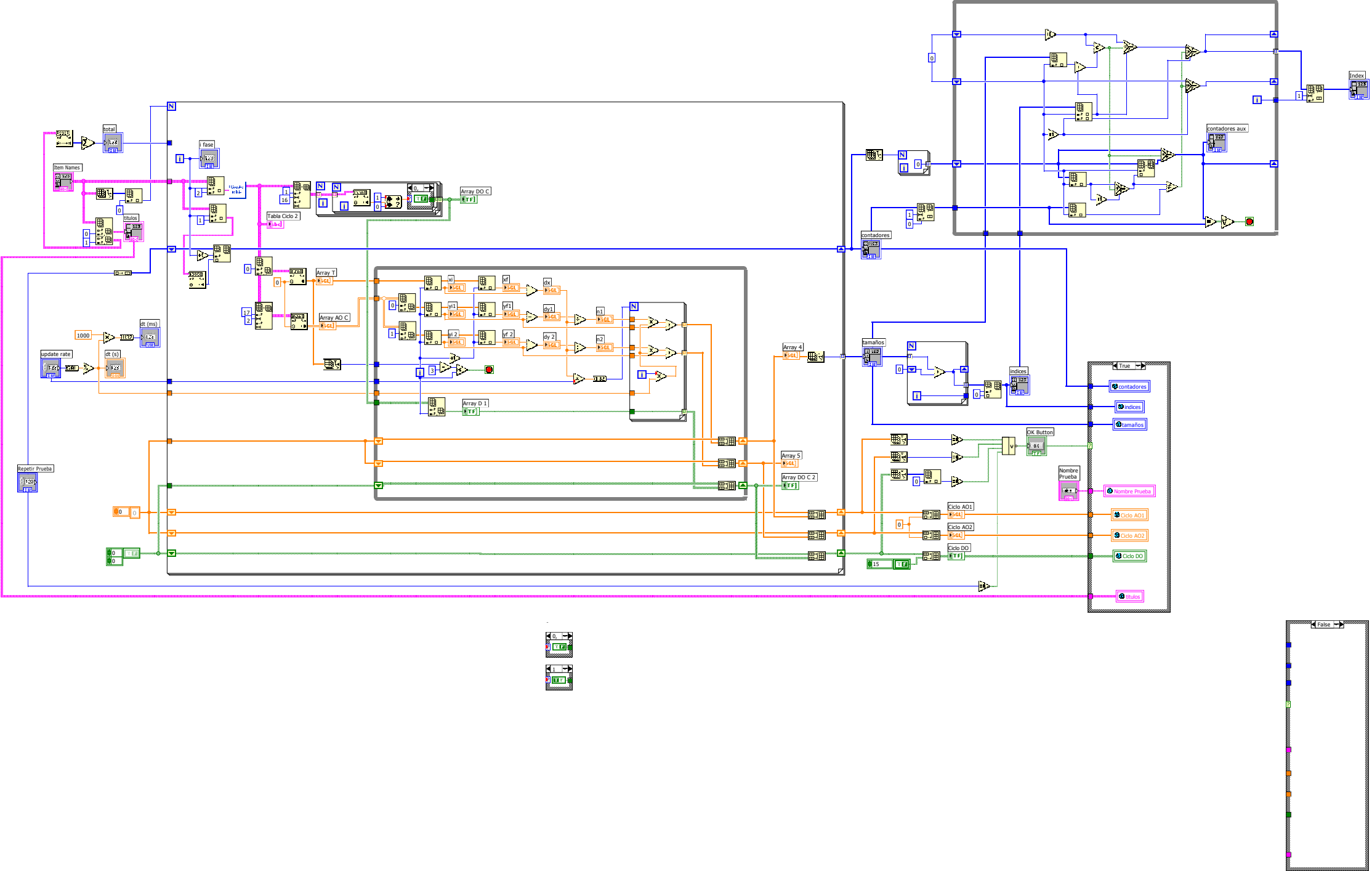


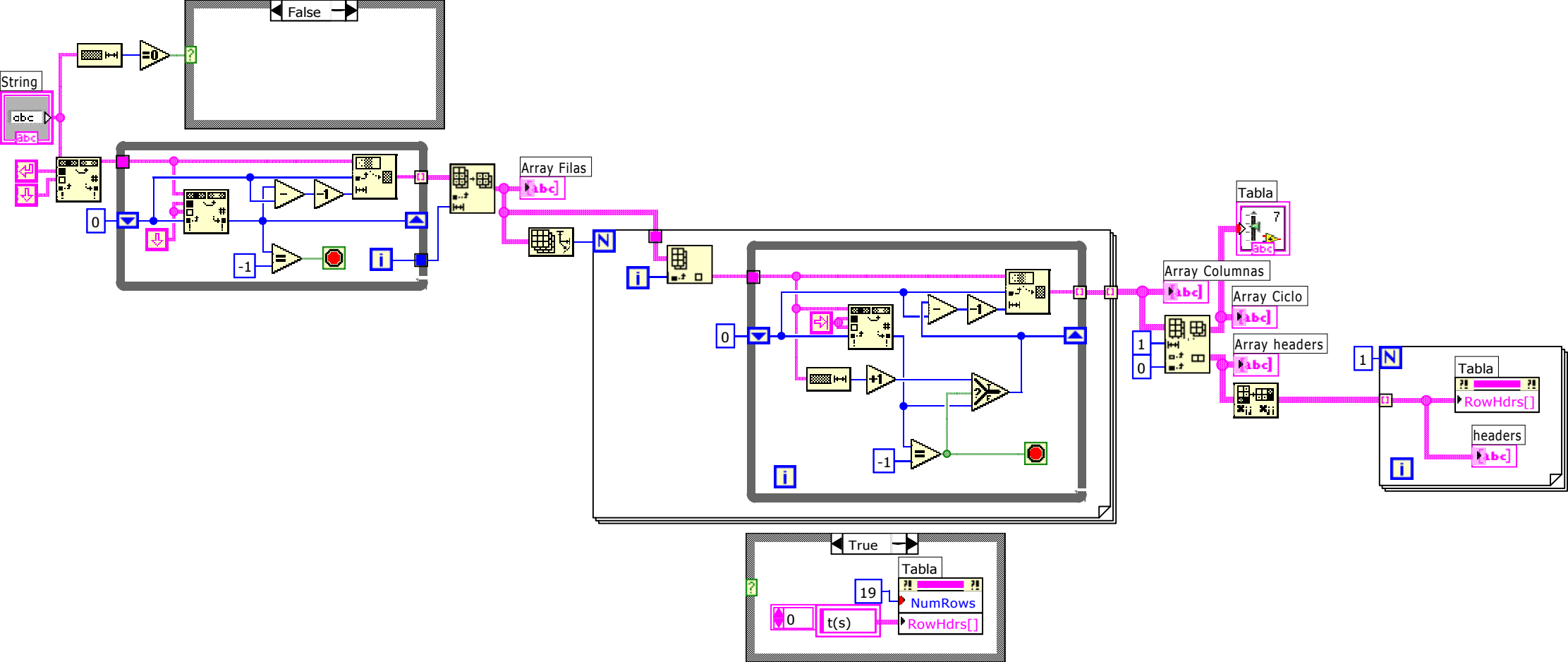


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